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## **FINAL REPORT**

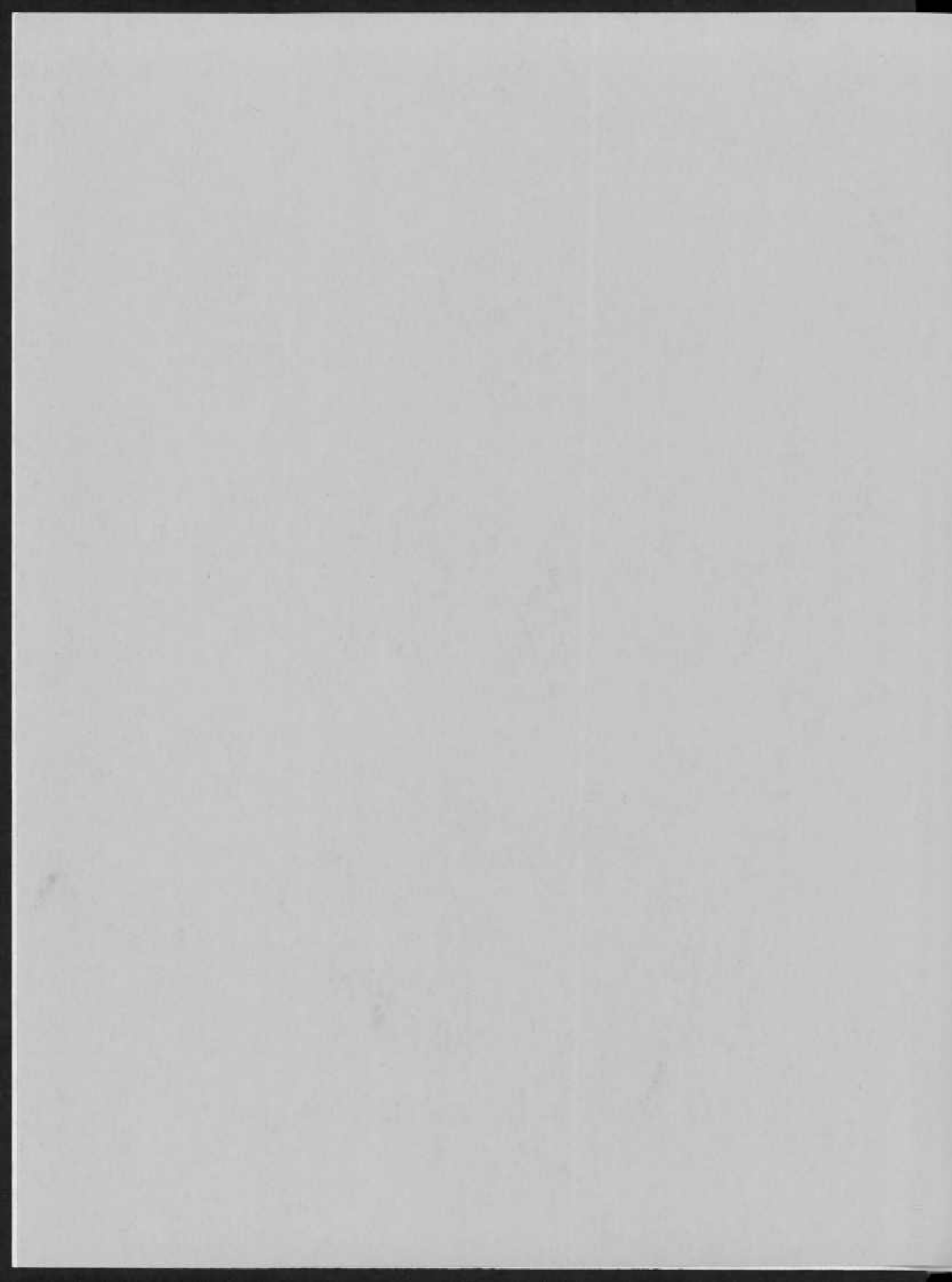
# **GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND**



Md. Y 3. F1 63 :2/T /1997  
Maryland. Governor's Flood  
Mitigation Task Force for  
Final report

**Casper R. Taylor, Jr., Chair**  
**COL Randall Inouye, Vice Chair**

**JANUARY 31, 1997**



# **FINAL REPORT**

GOVERNOR'S FLOOD MITIGATION TASK FORCE  
FOR WESTERN MARYLAND

## **GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND**

Section 2: Purpose

Section 3: Task Force Methodology

Section 4: Short-Term Workgroup Action Plan

Section 5: Long-Term Workgroup Action Plan

Section 6: Initial Funding Requirements

Section 7: Conclusions and Recommendations



Annex A: Casper R. Taylor, Jr., Chair

COL Randall Inouye, Vice Chair

Annex B: Listing of Appointed Task Force Members  
and Additional Participants

**JANUARY 31, 1997**

# FINAL REPORT

## GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND



Casper R. Taylor, Jr., Chair  
COL Randall Inouye, Vice Chair

JANUARY 21, 1997

# **FINAL REPORT**

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Section 1: Executive Summary

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Annex A: Authorities and Maximum Allowances

Annex B: Listing of Appointed Task Force Members  
and Additional Participants

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FOR WESTERN MARYLAND

- Section 1: Executive Summary
- Section 2: Purpose
- Section 3: Task Force Methodology
- Section 4: Short-Term Workgroup Action Plan
- Section 5: Long-Term Workgroup Action Plan
- Section 6: Initial Funding Requirements
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- Annex A: Authorities and Maximum Allowances
- Annex B: Listing of Appointed Task Force Members and Additional Participants

## Executive Summary

The State of Maryland experienced several floods in 1996, two of which resulted in Presidential Disaster Declarations. Rapid snowmelt from the blizzard of early January 1996 led to the first of the two flooding disasters in Garrett County on January 22, 1996. The second Presidential Disaster Declaration was issued for Allegany County on September 22, 1996 as a result of heavy rainfall from Tropical Storm Fran. Both of the "declared" flooding disasters manifested the greatest damage in West Virginia. Damage from Tropical Storm Fran was noted as occurring in Allegany County in late June 1996 due to heavy rainfall, and in the Emmitsburg area of Frederick County in June 1996, but the resulting damage from these events was not severe enough to warrant a Presidential Disaster Declaration.

# GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

## FINAL REPORT

Never before in the State of Maryland has more than one Presidential Disaster Declaration occurred in a single year. As a result of the January 1996 blizzard and two subsequent floods, there are now three so-called "open" disasters. A Governor's Task Force for Flood Mitigation in Western Maryland was announced at the Governor's Flood Summit Meeting on October 7, 1996.

## SECTION 1 EXECUTIVE SUMMARY

The Task Force is comprised of a cross-section of elected, appointed, and other officials and businesspersons. Its mission was made clear by a letter from Governor Parris N. Glendening: "review recent flooding events that occurred in Allegany, Frederick, Garrett, and Washington counties and develop recommendations to minimize or eliminate future flooding possibilities in that region."

The Task Force held a series of public meetings which allowed citizens, local elected officials, and others to bring significant flood-related issues to the attention of the Task Force. Many of the comments received at these meetings provided valuable information to the Task Force and its working groups. The public meetings were conducted in Allegany, Garrett, Frederick, and Washington counties between November 20-25, 1996. Local elected officials, members of the public and others were invited to speak to the Task Force and provide comments to identify flooding problems and potential solutions to assist in the development of the Task Force's recommendations. Individuals who could not attend the public meetings were permitted to mail or fax their comments to the Task Force by November 27, 1996.

GOVERNOR'S FLOOD MITIGATION TASK  
FORCE FOR WESTERN MARYLAND

FINAL REPORT

SECTION 1

EXECUTIVE SUMMARY



## **Executive Summary**

The State of Maryland experienced several floods in 1996, two of which resulted in Presidential Disaster Declarations. Rapid snowmelt from the blizzard of early January 1996 led to the first of the two flooding disaster declarations (January 19, 1996) due to damage in Allegany, Garrett, Frederick, Washington, and Cecil counties. A second Presidential Disaster Declaration was granted for Allegany, Frederick, and Garrett Counties on September 22, 1996 as a result of heavy rainfall from Tropical Storm Fran. Both of the "declared" flooding disasters manifested the greatest damage in Western Maryland, although damage from Tropical Storm Fran was noted around the State. Flooding also occurred in Allegany County in late June 1995 due to heavy rainfall, and in the Emmitsburg area of Frederick County in June 1996, but the resulting damage from these events was not severe enough to warrant a Presidential Disaster Declaration.

Never before in the State of Maryland has more than one Presidential Disaster Declaration occurred in a single year; as a result of the January 1996 blizzard and two subsequent floods, there are now three so-called "open" disasters. As a result of these extraordinary natural disasters, a Governor's Task Force on the Flooding in Western Maryland was announced at the Governor's Flood Summit Meeting on October 7, 1996.

The Task Force is comprised of a cross-section of elected, appointed, and other officials and businesspersons. Its mission was made clear by a letter from Governor Parris N. Glendening: "review recent flooding events that occurred in Allegany, Frederick, Garrett, and Washington counties and develop recommendations to minimize or eliminate future flooding possibilities in that region."

The Task Force held a series of public meetings which allowed citizens, local elected officials, and others to bring significant flood-related issues to the attention of the Task Force. Many of the comments received at these meetings provided valuable information to the Task Force and its working groups. The public meetings were conducted in Allegany, Garrett, Frederick, and Washington counties between November 20-25, 1996. Local elected officials, members of the public and others were invited to speak to the Task Force and provide comments to identify flooding problems and potential solutions to assist in the development of the Task Force's recommendations. Individuals who could not attend the public meetings were permitted to mail or fax their comments to the Task Force by November 27, 1996.

At the organizational meeting of the Task Force at Frostburg State University on November 14, 1996, three workgroups were identified to investigate the causes, issues and recommended solutions to recurrent flood damage in the western Maryland counties of Allegany, Frederick, Garrett and Washington:

- Short-Term Workgroup:** Addressed immediate efforts such as streambed restoration, floodplain management, and short-term mitigation measures. Short-term measures are those that are ongoing or should occur within the next 12 months, although some measures may have to be implemented over a 36-month period due to funding constraints.

- Long-Term Workgroup:** Addressed longer-term efforts such as flood gaging and warning systems, environmental restoration (including reforestation, wetland creation, re-establishment of stable stream forms, recapture of flood prone areas, and acid mine drainage abatement), and building acquisitions or retrofits which cannot be accomplished immediately. The group developed an action plan for the next five years.

- Funding Workgroup:** Addressed and identified current, possible funding sources for recommended mitigation measures.

Members of the Task Force participated in workgroups related to their specific areas of expertise. Additional staff from local, State, and federal departments and agencies provided technical assistance and information to the workgroups.

The workgroups examined the issues and recommendations presented through public meetings and historical data, and compiled their conclusions into action plans. The complete action plans are provided as sections of the main report. Significant issues and recommendations from the workgroups include:

#### Short-Term Workgroup

1) **RECOMMENDATION:** Purchase and remove 288 structures in the 100-year floodplain and 20 structures in the 500-year floodplain in accordance with willing sellers. Acquire properties to enable residents to voluntarily relocate to other areas out of the floodplain.

**COST:** Acquisition and demolition of identified structures/properties is estimated at approximately \$13.2 million. It is recommended that funding be provided by federal (75%), State (12.5%), and county (12.5%) governments over the next three years. A limited amount of State (\$1.3

million) and federal (\$1.1 million) funds are currently available which require a local cost share. It may be necessary for the State to assume responsibility for all or part of the local cost share for financially challenged local jurisdictions, to include the use of General Funds or bond flotation.

**NOTE:** The Task Force received comments from the Washington County Commissioners stating they approve of the concept of moving properties from the floodplain, but do not agree to participate in acquisition of private property, citing inadequate financial resources. Task Force members noted that eligible applicants can participate in acquisition projects by contributing the local cost share.

**2) RECOMMENDATION:** Identify and assist in funding floodproofing methods for public buildings or facilities and business owners when appropriate through a State grant or loan fund. Floodproofing should be cost-effective, not adversely impact others, be targeted toward protecting structures, and should not reduce available floodplain or effective flow area. Funds should be available throughout the State to encourage mitigation measures in all local jurisdictions.

**COST:** Currently being estimated.

**NOTE:** The Task Force received comments from the Washington County Commissioners stating they do not agree to participate in floodproofing and retrofitting of private structures, citing inadequate financial resources. Task Force members noted that eligible applicants can participate in floodproofing and retrofitting projects by contributing the local cost share.

**3) RECOMMENDATION:** Immediately restore streambeds and affected infrastructures to their condition prior to storm events. Immediately remove debris from prior storm events from affected waterways.

**COST:** The Natural Resources Conservation Service of the U.S. Department of Agriculture has been authorized to spend approximately \$6.1 million since January 1996 to implement the above activities. This cost includes a 25% local share in either cash or in-kind services, which represents a total project cost of \$8.2 million.

**4) RECOMMENDATION:** Where feasible, remove waterway blockages (e.g. old dikes, dams, trestles, etc.) to allow the free flow of flood waters.

**COST:** An estimated cost for removal is not available at this time, pending final identification of structures for removal. Costs of removal should be shared by the owners of the structures.

5) **RECOMMENDATION:** Work with Federal officials and the insurance industry to expedite payment of flood insurance claims.

**COST:** Unknown. Staff from the Maryland Department of the Environment (MDE), the Maryland Insurance Administration, the Maryland Emergency Management Agency (MEMA) and the Federal Emergency Management Agency (FEMA) will focus efforts toward this recommendation.

6) **RECOMMENDATION:** Provide comprehensive public information and education on river hydraulics and geomorphology, when and how to floodproof, functions and values of floodplains, and the National Flood Insurance Program.

**COST:** Unknown. Available staff from MDE will focused efforts toward this recommendation.

7) **RECOMMENDATION:** Create legislation to amend/augment the State's Comprehensive Flood Management Grant Program (CFMGP) as follows:

- Increase the State share from 50 percent to 75 percent and reduce the local government minimum contribution from 50 percent to 25 percent. The Comprehensive Flood Management Grant Program should be utilized when federal assistance is unavailable, or when State matching funds are required for mitigation projects.
- Increase the CFMGP bond authorizations over the next two to three years to provide the necessary support to accomplish the recommendations of this Task Force in acquiring properties, conducting flood studies, and supporting necessary flood warning systems.
- Provide relocation costs and financial incentives as deemed appropriate to induce residents to relocate out of the floodplain.

**COST:** Recommend that the amended Comprehensive Flood Management Grant Program seek additional bond authorizations annually to facilitate property acquisitions and other recommendations of this report.

8) **RECOMMENDATION:** Fund the State Catastrophic Event Fund to meet disaster needs. Create legislation to amend/augment the State's Catastrophic Event Fund as follows:

- Expand availability of the fund for use by local jurisdictions.

- Utilize the resources of the fund to assist financially challenged communities with their 25 percent share of federal disaster assistance. Utilize the fund to pay 50 percent of the local governments' cost share of federal disaster assistance when the cost of the disaster exceeds five dollars per capita for the jurisdiction in a current budget year.

- Reserve certain funds for disbursement following a disaster to jurisdictions where federal disaster assistance is unavailable, and the estimated cost of the disaster exceeds five dollars per capita for the jurisdiction in a current budget year. These funds would be provided on a 75 percent State/25 percent local cost share based on federal disaster assistance criteria.

**COST:** Recommend that the amended Catastrophic Event Fund be maintained at a minimum of \$10 million through annual appropriations.

**9. RECOMMENDATION:** Implement currently proposed elevation and construction mitigation projects.

**COST:** Estimated total cost of these projects is \$822,250. Funding required should be provided by federal (75%), State (12.5%), and county (12.5%) governments over the next three years. It may be necessary for the State to assume responsibility for all or part of the local cost share for financially challenged local jurisdictions, to include the use of General Funds or bond flotation.

#### Long-Term Workgroup

**1) RECOMMENDATION:** That the Maryland Department of the Environment (MDE) be designated as the responsible agency for synchronizing all post-flood watershed restoration efforts in Maryland. These efforts include: (1) ensuring that all emergency response actions are taken with due consideration of the environment, (2) providing technical and permitting assistance regarding waterway construction, stormwater management, dam safety, wetlands, water supplies, and wastewater management as necessary, (3) assisting in the provision of funding support for water and wastewater facility repairs, (4) coordinating flood mitigation efforts, (5) supporting local governments in establishing and maintaining programs necessary to qualify them for participation in the National Flood Insurance Program, (6) managing the state floodplain management program, and (7) administering the Maryland CFMGP.



**2) RECOMMENDATION:** That the Task Force, appointed by the Governor of Maryland, meet on a semi-annual basis to monitor the progress on identified issues of this report. This Task Force should coordinate its actions with the State Hazard Mitigation Policy Team. The first meeting will be scheduled for June or July, 1997.

**3) RECOMMENDATION:** That the lead State, federal and local departments and agencies investigate the open issues and report progress at the Task Force meetings.

**4) RECOMMENDATION:** That the elected and appointed officials assist in appropriating funds to implement the required actions and to minimize the financial burden of the local cost share requirements.

**5) RECOMMENDATION:** That the Maryland Department of the Environment, Maryland Office of Planning, National Park Service, the Interstate Commission on the Potomac River Basin, the Maryland Emergency Management Agency, and other departments and agencies deemed appropriate conduct a public outreach program for western Maryland to educate citizens on the relationship between land use and flooding.

**6) RECOMMENDATION:** That watershed studies be targeted to address the flood protection and environmental restoration needs of the individual counties and that information be used to update existing county master plans. Plans should be consistent with local land-use regulations and coordinated with other related water and land resource management programs.

**7) RECOMMENDATION:** That authorities responsible for all existing State of Maryland programs for locally designated Conservation and Revitalization Areas give priority of effort, in order, to Allegany, Garrett, Washington and Frederick Counties. The Secretaries/Directors of appropriate Departments and Agencies should assume responsibility for this action.

## PURPOSE

# GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

## FINAL REPORT

## SECTION 2

## PURPOSE

2) RECOMMENDATION: That the Task Force, appointed by the Governor of Maryland, meet on a semi-annual basis to monitor the progress on identified issues of this report. This Task Force should coordinate its efforts with the State Natural Resources Council. The first meeting will be scheduled for June or July, 1987.

3) RECOMMENDATION: That the State, federal and local departments and agencies investigate the open issue and report progress of the Task Force meetings.

4) RECOMMENDATION: That the elected and appointed officials assist in appropriating funds to implement the required actions and to minimize the financial burden on local and state requirements.

5) RECOMMENDATION: That the Maryland Department of the Environment, Maryland Office of the National Park Service, the Interstate Commission on the Potomac River Basin, the Maryland Emergency Management Agency, and other departments and agencies develop appropriate conduct a public awareness campaign for western Maryland to educate citizens on the related land use and flooding.

6) RECOMMENDATION: That watershed studies be targeted to address the flood protection and environmental restoration needs of the individual counties and that information be used to update existing county master plans. Plans should be consistent with local land-use regulations and coordinated with other related water and land resource management programs.

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## PURPOSE

The four western counties in the State of Maryland, Allegany, Frederick, Garrett, and Washington, suffered a series of significant flooding events beginning in the summer of 1995. The quick succession of storms allowed little time for citizens and communities to fully recover from one flood before the next flood arrived. In September 1996, Governor Glendening, members of the Maryland Congressional delegation, and others toured flood damaged areas following Hurricane Fran. Governor Glendening, in consultation with other public officials, made a decision to appoint a Task Force which would be responsible for identifying specific actions to minimize damage from future flood events. The purpose of this report is to document the work of the Governor's Flood Mitigation Task Force for Western Maryland, identify critical issues and at-risk areas, and recommend actions to reduce the threat to citizens and property from future flooding.

Attached to this section of the report are the Governor's greeting to the members of the Task Force on the occasion of their December 11, 1996 meeting in Frostburg, Maryland, and the Governor's press release announcing the appointment of the Task Force members on November 4, 1996.

Finally, my deep appreciation goes to the citizens, businesses, emergency leaders and local public servants. You are the reason we have come together. You represent the communities who have suffered repeated devastation at the hand of Nature.

As I have said, we all know our home is the foundation of our dreams. I will never forget the physical and emotional damage left by the relentless waters that tore through Western Maryland. The physical destruction was pervasively agonizing. The emotional trauma was heart-breaking. One child was worried about replacing his shoes so he could go to school. All of his clothing, including shoes, had been swept away by the flood. I met families whose children were washed away by the rains, who now just want a safe place to live. They are the reason we formed this Task Force.

Again, thank you for your dedication to this very important task. The mission of the Task Force is the development of an integrated, multi-agency plan to help the residents of Frederick, Washington, Garrett, and Allegany Counties escape their homes from the dangers of flooding. I look forward to receiving your interim report and recommendations on immediate and long-range strategies to help alleviate the suffering of our neighbors. Your charge is a heavy one and there is much work to be done. We are all in your debt.

Sincerely,

Parris H. Glendening  
Governor

## PURPOSE

The four western counties in the State of Maryland, Allegany, Frederick, Garrett, and Washington, suffered a series of significant flooding events beginning in the summer of 1985. The quick succession of storms allowed little time for citizens and communities to fully recover from one flood before the next flood arrived. In September 1986, Governor Glendening, members of the Maryland Congressional delegation, and others toured flood damaged areas following Hurricane Fran. Governor Glendening, in consultation with other public officials, made a decision to appoint a Task Force which would be responsible for identifying specific actions to minimize damage from future flood events. The purpose of this report is to document the work of the Governor's Flood Mitigation Task Force for Western Maryland, identify critical issues and at-risk areas, and recommend actions to reduce the threat to citizens and property from future flooding.

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STATE OF MARYLAND  
OFFICE OF THE GOVERNOR



December 11, 1996

PARRIS N. GLENDENING  
GOVERNOR

ANNAPOLIS OFFICE  
STATE HOUSE  
100 STATE CIRCLE  
ANNAPOLIS, MARYLAND 21401  
(410) 974-3901

WASHINGTON OFFICE  
SUITE 311  
444 NORTH CAPITOL STREET, N.W.  
WASHINGTON, D.C. 20001  
(202) 638-2215

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Dear Task Force Members:

Thank you for the time and energy you have invested in the Flood Mitigation Task Force. I commend you for accepting this important and challenging responsibility.

Speaker Taylor, I am most grateful for your service as Chair of the Task Force. The citizens of Western Maryland took the lion's share of the flooding in the aftermath of the January Blizzard and Tropical Storm Fran's fury. Your understanding and knowledge of the communities who suffered through the flooding bring a special blend of compassion and leadership to the Task Force. Colonel Inouye, your acceptance of this tremendous challenge enables the Task Force to benefit from your technical expertise and vast experience addressing systemic problems as experienced in the various Western Maryland watersheds.

Each of the State and federal agencies represented on the Task Force contributes additional professional knowledge and energy. You, along with your coworkers in your home agencies, allow the Task Force to look for realistic short and long term strategies to mitigate the flooding in Western Maryland. This Task Force has a great depth of expertise.

Finally, my deep appreciation goes to the citizens--businessmen, community leaders and local public servants. You are the reason we have come together. You represent the communities who have suffered repeated devastation at the hand of Nature.

As homeowners, we all know our home is the embodiment of our dreams. I will never forget the physical and emotional damage left by the relentless waters that tore through Western Maryland. The physical destruction was perversely spectacular. The emotional trauma was heartbreaking. One child was worried about replacing his shoes so he could go to school. All of his clothing, including shoes, had been swept away by the flood. I met families whose resilience was washed away by the rains, who now just want a safer place to live. They are the reasons we formed this Task Force.

Again, thank you for your dedication to this very important task. The mission of the Task Force is the construction of an integrated, synchronized plan to help the residents of Frederick, Washington, Garrett and Allegany Counties save their homes from the ravages of flooding. I look forward to receiving your interim report and recommendations on reasonable and responsive strategies to help alleviate the suffering of our neighbors. Your charge is a heavy one and there is much work to be done. We are all in your debt.

Sincerely,

Parris N. Glendening  
Governor



STATE OF MARYLAND  
OFFICE OF THE GOVERNOR

FOR IMMEDIATE RELEASE

CONTACT: Judi Scioli  
Ray Feldmann  
(410) 974-2316

GOVERNOR'S PRESS OFFICE

GOVERNOR GLENDENING NAMES MEMBERS TO  
WESTERN MARYLAND FLOOD TASK FORCE

*Group Will Develop Solutions to Reduce Risks of Future Flooding*

ANNAPOLIS, MD (November 4, 1996) --- As part of his ongoing efforts to reduce the risks of future flooding in Western Maryland, Governor Parris N. Glendening today appointed an impressive cross-section of elected and appointed officials and businesspersons as members of his Flood Mitigation Task Force, which he had announced during a recently held Flood Summit at Frostburg State University.

During the coming weeks, the group will review the recent flooding events that occurred in Allegany, Frederick, Garrett, and Washington counties and develop recommendations to minimize or eliminate future flooding possibilities in that region. The task force will present its initial findings to the Governor by December 20, 1996.

"People who live in these Western Maryland counties have suffered greatly because of continued occurrences of flooding over the past two years," said Governor Glendening. "We made a commitment to explore long-term solutions to remedy this problem, and I am confident that this task force will work hard and work quickly to find practical, cost-effective solutions to prevent future flooding disasters."

U.S. Senator Barbara A. Mikulski, who along with the Governor was instrumental in working with the Clinton Administration to secure Federal funding to provide emergency financial assistance to Western Maryland businesses and residents, commended Governor Glendening for his actions.

"This is very good news," Senator Mikulski said. "We now need to move forward in a very quick paced way before blizzards overtake us."

(more)

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Cumberland native and Maryland House Speaker Casper R. Taylor, Jr., who was named by Governor Glendening as chair of the task force, said he is optimistic that the group will be successful in identifying long-term solutions to the flooding problems which have plagued several Western Maryland communities.

"This is an excellent group of individuals," Speaker Taylor said. "There is no question in my mind that working together, we will develop of strong set of recommendations that will help us to prevent the kind of devastation we saw this past year in Lonaconing, Westernport, Cumberland, Point of Rocks, and other nearby areas."

In naming the members of the Task Force, Governor Glendening announced that Colonel Randall R. Inouye, District Engineer of the Baltimore District of the U.S. Army Corps of Engineers, will serve as vice chair. The following Federal representatives were also appointed today:

- Dr. Jeri Berc, State Conservationist, Natural Resources Conservation Service, U.S. Department of Agriculture (USDA);
- John Walls, State Director, USDA Rural Development;
- Doug Faris, Superintendent, C&O Canal National Historic Park, National Park Service, U.S. Department of Interior;
- Vicki Doty, Division Director of Mitigation, Region III, Federal Emergency Management Agency (FEMA);
- Jan Oppen, Senior Program Officer, U.S. Department of Housing and Urban Development;
- Jim Kelly, Economist, U.S. Department of Housing and Urban Development;
- Herb Sachs, Executive Director, Interstate Commission on the Potomac River Basin;
- Guy Land, Special Counsel and Congressional Liaison, Appalachian Regional Commission.

(more)

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Governor Glendening today also named the following local officials to the Task Force:

- Delegate Sue Hecht (D-Frederick);
- Delegate George C. Edwards (R-Garrett);
- Robert Lyons, Mayor of Westernport;
- Dr. Daniel A. Murphy, Town Council, Town of Hancock;
- Dale R. Lewis, Board of Allegany County Commissioners and a Lonaconing resident;
- W. Stephen Young, Allegany County Director of Public Works.

In addition, the Governor named several areas businesspersons to the Task Force:

- Malcolm D. "Mack" Davis, President, Davis, Renn & Associates, Inc. (Washington County);
- William M. "Bill" Keeny, former County Commissioner and small business owner (Allegany County);
- Diane Liebman, Vice President of Railroad Federal Affairs, CSX Corporation;
- Sull McCartney, owner of Highland Engineering (Garrett County);
- Richard L. Stup, an engineer with Loiderman & Associates (Frederick County).

Governor Glendening said the Task Force also would include representation from the following State agencies and departments:

- Maryland Department of Agriculture;
- Maryland Department of Business and Economic Development;
- Maryland Emergency Management Agency;
- Maryland Department of Environment;
- Maryland Department of Housing and Community Development;
- Maryland Department of Natural Resources;
- Maryland Office of Planning;
- Maryland Department of Transportation.

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## TASK FORCE METHODOLOGY

### GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

#### FINAL REPORT

The Task Force held public meetings which allowed citizens, local elected officials, and others to bring significant flood-related issues to the attention of the Task Force. Many of the comments received at these meetings provided valuable information to the Task Force and its working groups. The meetings were held according to the following schedule:

#### SECTION 3

#### TASK FORCE METHODOLOGY

Frederick County:	November 23, 1996 7:00-9:30 p.m.	Winchester Hall Frederick, MD
Washington County:	November 23, 1996 1:30-4:30 p.m.	College Hagerstown, MD
Garrett County:	November 23, 1996 1:00-4:00 p.m.	Garrett Community College McHenry, MD
Allegany County:	November 23, 1996 7:00-9:30 p.m.	Frostburg State University Frostburg, MD

Local elected officials, members of the public and others were invited to speak to the Task Force and provide comments to identify flooding problems and potential solutions to assist in the development of the Task Force's recommendations. Individuals who could not attend the public meetings were permitted to mail or fax their comments to the Task Force by November 27, 1996.

At the organizational meeting of the Task Force at Frostburg State University on November 14, 1996, three workgroups were identified to investigate the causes, issues and recommended solutions to recurrent flood damage in the Western Maryland counties of Allegany, Frederick, Garrett and Washington:

## GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

- Delegate George C. Edwards (R-Gilman)
- Robert Lyons, Mayor of Frostburg
- Dr. David A. Murphy, Town Council, Town of Harpersburg
- Dale B. Lewis, Board of Allegany County Commissioners and a Lanesburg resident.

- W. Stephen Young, Allegany County Director of Public Works.

In addition, the Governor named several other participants to the Task Force.

- Martin D. "Mac" Davis, President, Davis, Davis & Associates, Inc.

- William M. "Bill" Kelly, former County Commissioner and small business owner (Allegany County)

- Dave Latham, Vice President of Railroad Federal Affairs, CSX Corporation
- Bill McCann, owner of Highland Engineering (Garrett County)
- Edward L. Smith, an engineer with Lunderman & Associates (Frederick County)

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- Maryland Department of Agriculture
- Maryland Department of Business and Economic Development
- Maryland Emergency Management Agency
- Maryland Department of Environment
- Maryland Department of Housing and Community Development
- Maryland Department of Natural Resources
- Maryland Office of Planning
- Maryland Department of Transportation



## TASK FORCE METHODOLOGY

The Task Force is comprised of a cross-section of elected and appointed officials and businesspersons and its mission was made clear by a letter from Governor Parris N. Glendening: "review recent flooding events that occurred in Allegany, Frederick, Garrett, and Washington counties and develop recommendations to minimize or eliminate future flooding possibilities in that region."

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Frederick County:	November 20, 1996 7:00-9:30 p.m.	Winchester Hall Frederick, MD
Washington County:	November 22, 1996 1:30-4:30 p.m.	Hagerstown Junior College Hagerstown, MD
Garrett County:	November 25, 1996 1:00-4:00 p.m.	Garrett Community College McHenry, MD
Allegany County:	November 25, 1996 7:00-9:30 p.m.	Frostburg State University Frostburg, MD

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•**Funding Workgroup:** Addressed and identified current, possible funding sources for recommended mitigation measures.

Members of the Task Force participated in work groups related to their specific areas of expertise. Additional staff from local, State, and federal departments and agencies provided technical assistance and information to the workgroups.

The entire Task Force convened again on December 11, 1996, to discuss the findings of the workgroups and the structure of the interim report to the Governor. The interim report was presented to the Governor on December 20, 1996. The final report received a vote of approval from the entire Task Force on January 17, 1997, and was presented to the Governor on January 31, 1997.

## SHORT-TERM WORK GROUP ACTION PLAN

# GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND FINAL REPORT

## SECTION 4

## SHORT-TERM WORKGROUP ACTION PLAN

### 2. SIGNIFICANT ACTIONS REQUIRED:

#### a. ALL COUNTIES:

1) Immediately restore streambanks and affected infrastructures to their condition prior to storm events. A summary of NRCS and SCA actions taken to accomplish this recommendation is at Tab 1.

2) Immediately remove debris from prior storm events from affected waterways. A summary of NRCS and SCA actions taken to accomplish this recommendation is at Tab 1.

3) Purchase and remove structures in the floodplain: a list of recommended acquisitions is at Tab 2.

4) MDE will investigate a plan of action to coordinate periodic streambed clean-up to include the possible use of volunteer resources.

•Short-Term Workgroup: Addressed immediate efforts such as threatened sedimentation, floodplain management, and short-term mitigation measures. Short-term measures are those that are ongoing or should occur within the next 12 months, although some measures may have a longer-term impact. The group developed an action plan for the next five years.

•Funding Workgroup: Identified current, possible funding sources for recommended mitigation measures. The group developed an action plan for the next five years.

Members of the Task Force participated in work groups related to that specific area of expertise. Additional staff from local, State, and Federal departments and agencies provided technical assistance and information to the workgroups.

## SECTION 4

The entire Task Force convened again on December 11, 1996, to discuss the findings of the workgroups and the structure of the interim report to the Governor. The Governor approved the report on December 20, 1996. The final report received a vote of approval from the entire Task Force on January 11, 1997, and was presented to the Governor on January 31, 1997.

## **SHORT-TERM WORK GROUP ACTION PLAN**

1. **STATEMENT OF THE PROBLEM:** Maryland has experienced three historic flooding events in between June 1995 and September 1996. The damage has been extensive and has been exacerbated by the conditions created by previous flood events. Structures and infrastructure have been built in flood channels and in floodplains prior to the adoption of current floodplain regulations and are at risk. Surface water detaches and carries with it sediment and debris picked up by both overland flow and along streambanks. Streambank cutting occurs which threatens developed areas in the floodplain. After serious storm events, debris left in the streams causes greater flood hazards than had existed prior to the storm. This flooding ultimately forces citizens from their homes and damages roads and other infrastructure.

**OBJECTIVE:** This action plan will provide a comprehensive plan to cover the present day to 12 months and beyond to address the needs of Western Maryland for minimizing the impacts of future flood events. This plan will include streambank restoration, stream channel clearance, housing acquisition, retrofitting of buildings and infrastructure, and other measures which are presently occurring or could occur rapidly if adequate funding is provided.

### 2. **SIGNIFICANT ACTIONS REQUIRED:**

#### a. **ALL COUNTIES:**

1) Immediately restore streambeds and affected infrastructures to their condition prior to storm events. A summary of NRCS and SHA actions taken to accomplish this recommendation is at Tab 1.

2) Immediately remove debris from prior storm events from affected waterways. A summary of NRCS and SHA actions taken to accomplish this recommendation is at Tab 1.

3) Purchase and remove structures in the floodplain; a list of recommended acquisitions is at Tab 2.

4) MDE will investigate a plan of action to coordinate periodic streambed clean-up to include the possible use of volunteer resources.

b. ALLEGANY COUNTY:

- 1) Continue to support stream restoration efforts in the George's Creek area.
- 2) The NRCS is coordinating with Allegany County, the Town of Westernport, and the State Highway Administration to implement special stream restoration activities in George's Creek. The project will restore the George's Creek stream channel in Westernport, from approximately 1,500 feet upstream of Waverly Street to the railroad crossing at the American Legion. Work involves acquisition of 28 residences and stream channel relocation.
- 3) Continue to support other current projects in Allegany County which mitigate flood damage. A list of these projects and the departments and agencies involved in implementing them is at Tab 3.
- 4) Study existing Barton Reservoir to determine if breaching or reconstruction would be best to reduce existing safety hazards.
- 5) Evaluate the need to remove deposition at the confluence of the Potomac River at George's Creek.
- 6) Investigate removal of deposition at the SHA bridge and installation of larger culverts at the CSX Railroad crossings in the vicinity of Maryland Route 36 at Elk Lick Run.
- 7) Relocate the existing Midland ballfield out of the 100-year floodplain.
- 8) Remove a box culvert structure from the abandoned railroad in the vicinity of Grahamtown (after determining actual ownership).
- 9) Assess the impacts from removal of the old CSX railroad bridge in the vicinity of Locust Grove.
- 10) Assess the use of pipe culvert in lieu of open ditch for stormwater conveyance adjacent to Vocke Road residences.
- 11) Investigate floodproofing and structural retrofitting opportunities in the vicinity of Braddock Run.
- 12) Repair concrete slope protection and study prevention measures along I-68 in the vicinity of Clarysville and Vocke Road.
- 13) Provide information and education on stream restoration, floodplains, and floodproofing to floodplain residents and elected officials.
- 14) Assess the need to install additional culverts along Reynolds Road under CSX tracks to George's Creek to reduce flooding occurrences at Reynolds and Mill Run Roads.

15) Inventory and evaluate significant abandoned culverts and correct as necessary.

c. FREDERICK COUNTY:

- 1) Remove deposition at the U.S. Route 15 bridge over Flat Run near Emmitsburg.
- 2) Clear debris and deposition in Flat Run, and provide assistance to the Town of Emmitsburg and Frederick County to obtain needed permits.
- 3) Support Frederick County floodplain maintenance and floodproofing initiatives along Flat Run in Emmitsburg to prevent future flood damage.
- 4) Survey blockage of culverts at other sites throughout the County.
- 5) Investigate mitigation measures (including roadway elevation and placement of flood relief culverts) to minimize future flooding on Maryland Route 26 at Israel Creek.
- 6) Clear C&O Canal and towpath of debris in areas adjacent to the Brunswick Water Treatment plant.

d. GARRETT COUNTY:

- 1) Investigate possible mitigation measures to minimize future flooding at Maryland Route 39 in the vicinity of Crellin.
- 2) Retrofit (elevate) or floodproof 26 homes in Crellin in accordance with previous mitigation project proposal. Estimated cost of this project is \$671,000.
- 3) Floodproof Friendsville Water Treatment plant in accordance with previous mitigation project proposal. Estimated cost of this project is \$31,250.
- 4) Investigate opportunities to protect structures in Friendsville through floodproofing or isolating them from flood waters.
- 5) Continue Corps of Engineers road stabilization project in the vicinity of Shallmar; coordinate with CSX, NRCS, and MDE regarding hauling, dumping, and placement of fill.
- 6) Remove CSX railroad trestle above Shallmar.
- 7) Investigate clearing Potomac River channel near Kitzmiller.
- 8) Investigate streambank stabilization opportunities across from Abrams Creek.

9) Continue to support deposition removal and streambed restoration efforts along Savage River.

e. WASHINGTON COUNTY:

1) Provide floodproofing/retrofitting assistance to the American Legion Post in Funkstown.

2) Floodproof Hancock waste water pumping station in accordance with previous mitigation project proposal. Estimated cost of this project is \$120,000.

3) Relocate Sharpsburg water intake to minimize the degree of maintenance currently required and prevent future flood damage. Estimated cost of this project is \$400,000.

4) Relocate three Hancock Little League ballfields out of the 100-year floodplain.

3. IMPLEMENTATION PLAN: The purpose of the following matrix is to identify the potential departments and agencies for each of the actions identified in Paragraph 2. Lead departments and agencies have been identified, and will need to work cooperatively to address specific problem areas listed and identify funding sources. It is also expected that the local interests, whether contributing funding or not, will play an active role in any action undertaken within their area of concern.



# SHORT-TERM WORKGROUP IMPLEMENTATION MATRIX

ISSUE	NRCS	MEMA	MDE	DNR	SHA	CSX	COUNTY	OTHER	FEMA
Allegany County									
<b>GEORGE'S CREEK</b>									
Support special stream channel restoration in the vicinity of Westernport (action also includes Town of Westernport)	X				X		*X		
Barton Reservoir creates safety hazard - need to study to determine if breaching or reconstruction is needed	*X		*X				X		
Potomac/George's Creek confluence buildup (Includes CSX trestle/135 bridge)	X		X		X	X	*X		
<b>RT 36 @ Elk Lick Run:</b>									
Investigate deposition removal at SHA bridge and installation of larger culverts at CSX RR crossings					X	*X			
Midland ballfield relocation (P.O.S.)				X				Town	
<b>Grahamstown:</b>									
Removal of box culvert structure from abandoned railroad (ownership determination)	X					X	*X		

\* Lead Agency or Co-Leads

[illegible]

ISSUE	NRCS	TOWN	MDE	NPS	SHA	COUNTY
Frederick County						
FLAT RUN						
Emmitsburg:						
Deposition removal at Rt. 15 at Flat Run		X			X	*X
Clearing of Flat Run through town (assistance with permits)		X	X			*X
Support County floodplain maintenance and floodproofing initiatives.			X			*X
Survey of culvert blockage (countywide)			X		X	*X

ISRAEL CREEK						
Israel Creek at MD 26:						
Investigate possible road elevation and flood relief culverts					*X	

POTOMAC RIVER						
Brunswick:						
Clear towpath/canal of debris adjacent to water treatment plant	X	X			*X	X

ISSUE		NRCS	FEMA	MDE	CSX	SHA	COUNTY	MEMA	USACE **
Garrett County									
YOUGHIOGHEN WATERSHED									
Crellin:									
Investigate Rt. 39 flooding issue						*X			
Retrofit or floodproof 26 homes			X	X			*X	X	
Friendsville:									
Treatment plant floodproofing project			X	*X			X	X	
Possible fill project; determine if low spot fill in existing embankment will adversely affect other properties		X		*X					
X									
SAVAGE RIVER									
Deposition removal, streambed restoration									
POTOMAC RIVER									
Shallmar:									
COE road stabilization project: Coordinate with CSX, NRCS, MDE on hauling, dumping, and placement of fill		X		X	X		*X		*X
Removal of CSX bridge above Shallmar		X		*X	*X				
Investigate bank stabilization across from Abram Creek		X		*X					
Kitzmilller:									
Look at clearing channel		X		X	X				*X

\*\* Corps of Engineers requires a formal request to initiate a study.

ISSUE	NRCS	MEMA	MDE	DNR	SHA	COUNTY	OTHER	FEMA
Washington County								
ANTIETAM CREEK								
Funkstown:								
Retrofit American Legion facilities		X	X			X	Town	X
POTOMAC RIVER								
Hancock:								
Floodproof waste water treatment plant		X	X			X	Town	X
Hancock Little League fields relocation				X			Town	
Sharpsburg:								
Relocate water intake			X			X	Town	

4. EXPENDITURES BY COUNTY (does not reflect SHA costs)

**GOVERNOR'S FLOOD MITIGATION  
TASK FORCE FOR WESTERN MARYLAND  
NRCS EWP FINANCIAL ASSISTANCE**

<u>ALLEGANY COUNTY</u>	<u>NRCS</u>	<u>COUNTY</u>	<u>TOTAL</u>
June 1995 Storm (FY'95)	\$ 807,191	\$ 269,064	\$1,076,255
Blizzard 1996 (FY'96)	\$1,672,470	\$ 557,490	\$2,229,960
Hurricane Fran 1996 (FY'97)	\$3,675,000	\$1,225,000	\$4,900,000
<b>TOTAL</b>	<b>\$6,154,661</b>	<b>\$2,051,554</b>	<b>\$8,206,215</b>

<u>GARRETT COUNTY</u>	<u>NRCS</u>	<u>COUNTY</u>	<u>TOTAL</u>
June 1995 Storm (FY'95)	\$ 36,177	\$ 12,059	\$ 48,236
Blizzard 1996 (FY'96)	\$ 401,960	\$ 133,987	\$ 535,947
Hurricane Fran 1996 (FY'97)	\$ 75,000	\$ 25,000	\$ 100,000
<b>TOTAL</b>	<b>\$ 513,137</b>	<b>\$ 171,046</b>	<b>\$ 684,183</b>

<u>FREDERICK COUNTY</u>	<u>NRCS</u>	<u>COUNTY</u>	<u>TOTAL</u>
June 1996 Storm (FY'96)	\$ 300,000	\$ 100,000	\$ 400,000

## 5. Conclusions and Recommendations

### a. Conclusions:

1) Allegany County, specifically the George's Creek and Wills Creek watersheds, received the most devastation from the three flood events from June 1995 through September 1996.

2) Twenty federal and state agencies have varying authorities by which to assist the counties during and after emergency situations, but their activities are not currently synchronized nor coordinated through one centralized, responsible organization.

3) Due to concerns raised at the public meetings, MDE provided the Task Force with the following explanation of current strip mining regulations: Stormwater management structures required on surface coal mines reduce peak run-off of frequent storms to less than, typically, pre-mining peak run-off. Because of the magnitude of the 100-year storm event in George's Creek, and the small percentage of the watershed disturbed by active mining, any impacts on flood flow elevations from active mining operations are insignificant. Drainage control and stormwater management structures are not removed until each site is vegetatively stabilized and the run-off rates return to pre-mining rates.

4) To effectively minimize the impacts of flooding on the citizens in western Maryland, ecosystem restoration and land management must be targeted for each watershed.

### b. Recommendations:

1) Purchase and remove 288 structures in the 100-year floodplain and 20 structures in the 500-year floodplain in accordance with willing sellers. Acquire properties to enable residents to voluntarily relocate to other areas out of the floodplain.

COST: Acquisition and demolition of identified structures/properties is estimated at approximately \$13.2 million. It is recommended that funding be provided by federal (75%), State (12.5%), and county (12.5%) governments over the next three years. A limited amount of State (\$1.3 million) and federal (\$1.1 million) funds are currently available which require a local cost share. It may be necessary for

the State to assume responsibility for all or part of the local cost share for financially challenged local jurisdictions, to include the use of General Funds or bond flotation.

**NOTE:** The Task Force received comments from the Washington County Commissioners stating they approve of the concept of moving properties from the floodplain, but do not agree to participate in acquisition of private property, citing inadequate financial resources. Task Force members noted that eligible applicants can participate in acquisition projects by contributing the local cost share.

2) Identify and assist in funding floodproofing methods for individual home and business owners through a State grant or loan fund. Floodproofing should be cost-effective, not adversely impact others, be targeted toward protecting structures, and should not reduce available floodplain or effective flow area. Funds should be available throughout the State to encourage mitigation measures in all local jurisdictions.

**COST:** Currently being estimated.

**NOTE:** The Task Force received comments from the Washington County Commissioners stating they do not agree to participate in floodproofing and retrofitting of private structures, citing inadequate financial resources. Task Force members noted that eligible applicants can participate in floodproofing and retrofitting projects by contributing the local cost share.

3) Immediately restore streambeds and affected infrastructures to their condition prior to storm events. Immediately remove debris from prior storm events from affected waterways.

**COST:** The Natural Resources Conservation Service of the U.S. Department of Agriculture has been authorized to spend approximately \$6.1 million since January 1996 to implement the above activities. This cost includes a 25% local share in either cash or in-kind services, which represents a total project cost of \$8.2 million.

4) Where feasible, remove waterway blockages (e.g. old dikes, dams, trestles, etc.) to allow the free flow of flood waters.



**COST:** An estimated cost for removal is not available at this time, pending final identification of structures for removal. Costs of removal should be shared by the owners of the structures.

5) Work with Federal officials and the insurance industry to expedite payment of flood insurance claims.

**COST:** Unknown. Staff from MDE, the Maryland Insurance Administration, MEMA and FEMA will focus efforts toward this recommendation.

6) Provide comprehensive public information and education on river hydraulics and geomorphology, when and how to floodproof, functions and values of floodplains, and the National Flood Insurance Program:

**COST:** Unknown. Available staff from MDE will focus efforts toward this recommendation.

7) Create legislation to amend/augment the State's Comprehensive Flood Management Grant Program (CFMGP) as follows:

- Increase the State share from 50 percent to 75 percent and reduce the local government minimum contribution from 50 percent to 25 percent. The Comprehensive Flood Management Grant Program should be utilized when federal assistance is unavailable, or when State matching funds are required for mitigation projects.
- Increase the CFMGP bond authorizations over the next two to three years to provide the necessary support to accomplish the recommendations of this Task Force in acquiring properties, conducting flood studies, and supporting necessary flood warning systems.
- Provide relocation costs and financial incentives as deemed appropriate to induce residents to relocate out of the floodplain.

**COST:** Recommend that the amended Comprehensive Flood Management Grant Program seek additional bond authorizations

annually to facilitate property acquisitions and other recommendations of this report.

**8) Create legislation to amend/augment the State's Catastrophic Event Fund as follows:**

- Expand availability of the fund for use by local jurisdictions.
- Utilize the resources of the fund to assist financially challenged communities with their 25 percent share of federal disaster assistance. Utilize the fund to pay 50 percent of the local governments' cost share of federal disaster assistance when the cost of the disaster exceeds five dollars per capita for the jurisdiction in a current budget year.
- Reserve certain funds for disbursement following a disaster to jurisdictions where federal disaster assistance is unavailable, and the estimated cost of the disaster exceeds five dollars per capita for the jurisdiction in a current budget year. These funds would be provided on a 75 percent State cost share/25 percent local cost share based on federal disaster assistance criteria.

**COST:** Recommend that the amended Catastrophic Event Fund be maintained at a minimum of \$10 million through annual appropriations.

**9) Implement currently proposed elevation and construction mitigation projects.**

**COST:** Estimated total cost of these projects is \$1,222,250. Funding required should be provided by federal (75%), State (12.5%), and county (12.5%) governments over the next three years. It may be necessary for the State to assume responsibility for all or part of the local cost share for financially challenged local jurisdictions, to include the use of General Funds or bond flotation.

# SHORT-TERM ACTION PLAN

## TAB 1

### ONGOING IMMEDIATE ACTIONS

Category	Priority	Item	Responsible	Due Date	Status	Comments	Estimated Cost	IPB Impact
B - Immediate Action	1	Complete all outstanding permits	John Doe	10/15/2023	In Progress	Permit for Phase 1 construction	\$10,000	Low
	2	Finalize design for Phase 1	Jane Smith	10/20/2023	Not Started	Design for Phase 1 construction	\$5,000	Low
	3	Obtain all necessary permits	John Doe	10/25/2023	In Progress	Permit for Phase 2 construction	\$15,000	Low
	4	Complete all outstanding permits	Jane Smith	10/30/2023	Not Started	Design for Phase 2 construction	\$10,000	Low
	5	Obtain all necessary permits	John Doe	11/05/2023	In Progress	Permit for Phase 3 construction	\$20,000	Low
	6	Complete all outstanding permits	Jane Smith	11/10/2023	Not Started	Design for Phase 3 construction	\$15,000	Low
	7	Obtain all necessary permits	John Doe	11/15/2023	In Progress	Permit for Phase 4 construction	\$25,000	Low
	8	Complete all outstanding permits	Jane Smith	11/20/2023	Not Started	Design for Phase 4 construction	\$20,000	Low
	9	Obtain all necessary permits	John Doe	11/25/2023	In Progress	Permit for Phase 5 construction	\$30,000	Low
	10	Complete all outstanding permits	Jane Smith	12/01/2023	Not Started	Design for Phase 5 construction	\$25,000	Low
Total Estimated Cost: \$150,000								
Total Estimated Impact: Low								

# PROJECT STATUS

1/10/97

Site No.	Priority	Status	Watershed	Work	Protects	Town or County	Estimated Cost	IFB / RFQ
1	4	B	Bartlett Run	Gabions, Concrete, Deposition	Homes, Sewer, Garage	Barton	\$ 130,000	24*
2	3	B	Bartlett Run	Riprap	Homes, Shed	Barton	\$ 53,680	35*
3	5	B	Bartlett Run	Underpin, Gabions, Deposition	Dwv Bridge, Shed	Barton	\$ 31,000	35*
4	6	B	Bartlett Run	Gabions, Deposition	County Road	Allegheny	\$ 15,150	35*
5	2	B	Bartlett Run	Concrete wall, Deposition	County Road, Dwv Bridge	Allegheny	\$ 45,500	35*
6	1	B	Bartlett Run	Underpin, Gabions, Deposition	County Road, Dwv Bridge	Allegheny	\$ 38,000	11
7	7	H D	Bartlett Run	Out by County	County Road	Allegheny	\$ -	
8	8		Bartlett Run	Riprap	Dam, Gravel Road	Barton		*
1		C	Bear Creek	Riprap	Bridge	Garrett	\$ 70,000	26
1A			Bear Creek	Deposition	Bridge	Garrett		
1	4	C	Braddock Run	Deposition	Inventory	Allegheny	\$ 1,000	6
2	10	C	Braddock Run	Deposition, Riprap	Manhole	Allegheny	\$ 6,155	6
2a		C	Braddock Run	Deposition	Road	Allegheny	\$ 2,000	6
3		C	Braddock Run	Deposition	Homes	Allegheny	\$ 4,000	6
3A			Braddock Run	Deposition	Homes	Allegheny	\$ 2,500	
4		C	Braddock Run	Deposition	Homes	Allegheny	\$ 5,000	6
5	2	C	Braddock Run	Deposition	Home	Allegheny	\$ 7,300	6
6	6	B	Braddock Run	Gabions	Pool	Allegheny	\$ 17,200	38
7	12	C	Braddock Run	Deposition	Garage	Allegheny	\$ 3,800	6
8	11	C	Braddock Run	Deposition	Road	Allegheny	\$ 4,800	6
9	8	C	Braddock Run	Deposition	Home	Allegheny	\$ 6,800	6

Legend: S - surveyed

D - designed

B - Bid Package/ Under Contract

C - completed

H - Hold

\* - FEMA DSR

# PROJECT STATUS

1/10/97

Site No.	Priority	Status	Watershed	Work	Protects	Town or County	Estimated Cost	IFB / RFQ
10	9	H	Braddock Run	Completed by owner	Bridge / Road	Allegany	\$ -	
10A		B	Braddock Run	Deposition	Home/Bridges	Allegany	\$ 3,000	42
11	11	C	Braddock Run	Deposition	Bridge	Allegany	\$ 8,800	6
12	7	B	Braddock Run	Gabions	Home	Allegany	\$ 45,350	38
13	13	C	Braddock Run	Deposition	Home	Allegany	\$ 4,300	6
14	14	C	Braddock Run	Tree Removal	Home	Allegany	\$ 1,500	6
15		C	Braddock Run	Deposition	Home	Allegany	\$ 4,000	6
16	3	B	Braddock Run	Gabions	Business	Allegany	\$ 50,000	37
17	5	B	Braddock Run	Gabions / Riprap	Utility / Sewer	Allegany	\$ 50,000	37
18	15		Braddock Run	Deposition	Road / Culvert	Allegany	\$ 600	
19			Braddock Run	Deposition	Homes	Allegany	\$ 600	
19A		B	Braddock Run	Concrete	Bridge	Allegany	\$ 5,000	29
20	15	B	Braddock Run	Deposition	Road	Allegany	\$ 2,000	42
20A		B	Braddock Run	Deposition	Garage	Allegany	\$ 2,000	42
1		S	Buffalo Run	Deposition	Bridge	Garrett	\$ 1,200	
1	2	B	Dry Run	Debris	Yard, Home	Allegany	\$ 500	42
1A		S	Dry Run	Underpin	Bridge	Allegany	\$ 4,000	
2	1	S	Dry Run	Gabions	Yard, Home	Allegany	\$ 6,000	
3	3	C	Dry Run	Debris	Yard, Garage	Allegany	\$ 1,500	42
3A		C	Dry Run	Deposition	Yard, Home	Allegany	\$ 2,000	42
1	5	C	Ellick Run	Deposition	Home	Allegany	\$ 5,000	15

Legend: S - surveyed

D - designed

B - Bid Package/ Under Contract

C - completed

H - Hold

\* - FEMA DSR

USDA, Natural Resources Conservation Service  
Emergency Watershed Protection

**PROJECT STATUS**

Site No.	Priority	Status	Watershed	Work	Protects	Town or County	Estimated Cost	IFB / RFQ
2	2	B	Ellick Run	Riprap	Shed	Allegany	\$ 15,000	32
2A			Ellick Run	Deposition	Day Care	Allegany	\$ 2,000	
3	8	B	Ellick Run	Deposition	Bridge	Allegany	\$ 5,000	15
4	1	B	Ellick Run	Gabions	Co. Road	Allegany	\$ 30,000	32
5	6	C	Ellick Run	Deposition	Co. Road	Allegany	\$ 5,000	15
6	7	C	Ellick Run	Deposition	Wall	Allegany	\$ 5,000	15
7	4	B	Ellick Run	Gabions	Bridge	Allegany	\$ 10,000	32
8	3	B	Ellick Run	Gabions	Co. Road	Allegany	\$ 10,000	32
9		B	Ellick Run	Gabions	Co. Road	Allegany	\$ 16,200	32
1	4	B	Evitt's Creek	Imbricated Riprap	Road	Allegany	\$ 3,600	30
1a		B	Evitt's Creek	Gabions	Road	Allegany	\$ 16,400	30
1b		B	Evitt's Creek	Gabions	Road	Allegany	\$ 15,900	30
1c		B	Evitt's Creek	Gabions	Road	Allegany	\$ 33,500	30
2	5	B	Evitt's Creek	Deposition	Pond	Allegany	\$ 3,279	13
3	7	H	Evitt's Creek	Debris	Building	Allegany		
3a		D	Evitt's Creek	Gabion	Co. Road	Allegany	\$ 6,320	
4	8	D	Evitt's Creek	Concrete	Bridge	Allegany	\$ 16,000	
5	6	B	Evitt's Creek	Deposition	Bridge	Allegany	\$ 3,279	13
6	1	D	Evitt's Creek	Riprap	Utilities	Allegany	\$ 10,000	
7	3	B	Evitt's Creek	Deposition	Home	Allegany	\$ 5,000	42
8	2	H	Evitt's Creek	Stream Restoration	Pond	Allegany	\$ 20,000	
1	12		George's Creek	Deposition	Homes, Bridge	Westernport	\$ 100,000	
2	11	B	George's Creek	Precast	Homes	Westernport	\$ 92,000	28
3	8	B	George's Creek	Deposition	Building	Westernport	\$ 12,000	

Legend: S - surveyed

D - designed

B - Bid Package/ Under Contract

C - completed

H - Hold

\* - FEMA DSR

# PROJECT STATUS

1/10/97

Site No.	Priority	Status	Watershed	Work	Protects	Town or County	Estimated Cost	IFB / RFQ
4	9	H	George's Creek	Deposition	Homes	Westernport	\$ 530,000	
5	10	H	George's Creek	Deposition/Gabions	Homes	Westernport	\$ 700,000	
6	25	B	George's Creek	Imbricated, Riprap	Bridge	Allegany	\$ 20,000	41
7		B	George's Creek	Deposition	Road	Allegany	\$ 10,000	
7A		B	George's Creek	Riprap	Sewer	Allegany	\$ 37,000	16
8		B	George's Creek	Deposition	Home	Allegany	\$ 3,400	41
9		B	George's Creek	Deposition	Home	Allegany		41
10	17	H	George's Creek	Concrete	Bridge	Allegany		*
10A		B	George's Creek	Riprap	RR & Bridge	Allegany	\$ 37,000	16
11	26	C	George's Creek	Deposition	Bridge	Allegany	\$ 4,005	7
12	2	C	George's Creek	Deposition	Homes	Allegany	\$ 80,000	7
13	24	H	George's Creek	Deposition	Homes, Roads	Allegany	\$ 6,660	16
13A			George's Creek	Debris	Homes & Road	Midland	\$ 20,000	
14		B	George's Creek	Gabions, deposition	Sewer	Allegany	\$ 75,000	16*
15	1	B	George's Creek	Deposition	Homes, Roads	Allegany	\$ 13,338	16*
16		B	George's Creek	Riprap	Sewer	Allegany	\$ 15,000	7
16A		B	George's Creek	Deposition	Homes	Allegany	\$ 10,000	
17	28	H	George's Creek	Done by County	Bridge	Barton	\$ -	
18	29	C	George's Creek	Deposition	Home	Barton	\$ 5,000	
19		S	George's Creek	Riprap	Sewer	Barton	\$ 20,000	*
20	7	D	George's Creek	Concrete	Firehall, Waterline	Barton	\$ 80,000	*
21	14		George's Creek	Slide	Home	Barton	\$ 100,000	
22			George's Creek	Deposition	Homes	Allegany	\$ 20,000	*
22A			George's Creek	Underpin	Homes	Allegany	\$ 10,000	
23			George's Creek	Riprap	Bridge	Allegany	\$ 20,000	

Legend: S - surveyed

D - designed

B - Bid Package/ Under Contract

C - completed

H - Hold

\* - FEMA DSR



# PROJECT STATUS

1/10/97

Site No.	Priority	Status	Watershed	Work	Protects	Town or County	Estimated Cost	IFB / RFQ
24	6	C	George's Creek	Deposition	Homes	Allegany	\$ 48,000	7
24A			George's Creek	Riprap	Homes	Allegany	\$ 2,000	
25			George's Creek	Gabions	Homes	Allegany	\$ 20,000	
25A			George's Creek	Deposition	Homes	Allegany	\$ 2,000	
26	18	C	George's Creek	Deposition	Homes	Allegany	\$ 24,500	41
27		C	George's Creek	Debris	Homes	Allegany	\$ 2,000	41
28	19	B	George's Creek	Deposition	Homes	Allegany	\$ 5,400	41
29		B	George's Creek	Deposition	Homes	Allegany	\$ 5,000	41
29A		B	George's Creek	Deposition	Levee	Allegany		41
29B		B	George's Creek	Deposition	Homes	Allegany	\$ 40,000	41
30			George's Creek	Deposition	Homes	Allegany	\$ 500	
31			George's Creek	Debris	Homes	Allegany	\$ 2,500	
32	13	C	George's Creek	Gabions	Homes	Allegany	\$ 68,250	9
33	52	H	George's Creek	Gabions	Homes	Allegany		
34			George's Creek	Riprap	Sewer	Allegany	\$ 2,500	
35	27	D	George's Creek	Imbricated, Riprap	Family Center	Allegany	\$ 74,800	
36	36		George's Creek	Deposition	Homes	Allegany	\$ 5,000	
37		C	George's Creek	Deposition	Homes/Roads	Allegany	\$ 1,000	15
38		C	George's Creek	Deposition	County Road	Allegany	\$ 1,000	
39	33	C	George's Creek	Deposition	School	Allegany	\$ 9,000	
40	20	C	George's Creek	Deposition	Homes	Lonaconing	\$ 20,000	
40A			George's Creek	Riprap	Sewer	Allegany	\$ 10,000	
40B			George's Creek	Riprap	Waterline	Allegany	\$ 20,000	
41	22	C	George's Creek	Deposition	Homes	Lonaconing	\$ 10,000	7
42	22	D	George's Creek	Concrete	Business	Lonaconing	\$ 49,200	
43	3	B	George's Creek	Riprap	Business	Lonaconing	\$ 56,000	30
44			George's Creek	Concrete	Home	Lonaconing	\$ 100,000	
44A			George's Creek	Concrete	Home Wall	Allegany	\$ 5,000	
45	21	D	George's Creek	Concrete/underpinning	George's Creek Walls	Lonaconing	\$ 100,000	

Legend: S - surveyed  
D - designed  
B - Bid Package/ Under Contract  
C - completed  
H - Hold  
\* - FEMA DSR



# PROJECT STATUS

1/10/97

Site No.	Priority	Status	Watershed	Work	Protects	Town or County	Estimated Cost	IFB / RFQ
46	5	B	George's Creek	Concrete	Homes	Lonaconing	\$ 60,750	18
47		C	George's Creek	Deposition	Homes	Lonaconing	\$ 5,000	15
48	4	C	George's Creek	Concrete	Homes	Lonaconing	\$ 50,000	
49		H				Lonaconing		
50	34	B	George's Creek	Imbricated	Home	Lonaconing	\$ 29,400	18
51	40	B	George's Creek	Riprap	Business	Allegany	\$ 18,660	18
51A		C	George's Creek	Deposition	Home	Allegany	\$ 5,000	
51B			George's Creek	Underpinning	Bridge	Allegany	\$ 10,000	
52	38	B	George's Creek	Deposition	Homes	Allegany	\$ 10,000	15
53	23	C	George's Creek	Deposition	Road, Bridges, Building, Parking Lot	Allegany	\$ 10,000	15
54	31	C	George's Creek	Deposition/gabions	Road	Allegany	\$ 5,000	15
55		C	George's Creek	Deposition	Road	Allegany	\$ 5,000	15
56	37	B	George's Creek	Deposition	Co. Road	Allegany	\$ 5,000	15
57		C	George's Creek	Deposition	Homes	Allegany	\$ 4,000	15
58	41		George's Creek	Deposition	Home	Allegany	\$ 10,000	
59	16		George's Creek	Deposition	Ballfields	Midland	\$ 10,000	
60		S	George's Creek	Riprap	Driveway	Midland	\$ 15,000	
61	30		George's Creek	Deposition	Homes	Midland	\$ 5,000	
62			George's Creek	Dike Repair	Homes	Allegany	\$ 25,000	
63		C	George's Creek	Deposition	Apts.	Midland	\$ 10,000	
63A			George's Creek	Debris	Home	Allegany	\$ 10,000	
64			George's Creek	Deposition	Pasture	No town	\$ 5,000	
1	2	B	Jackson Run	Deposition/Underpin/ Gabions	Homes / Bridge / Sewer	Lonaconing	\$ 6,850	30
2	3	B	Jackson Run	Gabion	Parking Lot	Lonaconing	\$ 23,152	30
2a		B	Jackson Run	Gabion	Lower Town	Lonaconing	\$ 44,590	30

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# PROJECT STATUS

1/10/97

Site No.	Priority	Status	Watershed	Work	Protects	Town or County	Estimated Cost	IFB / RFQ
3	7	B	Jackson Run	Concrete	Sewer Line	Lonaconing	\$ 16,950	30
4	6	B	Jackson Run	Concrete	Homes	Lonaconing	\$ 17,315	30
5	3	B	Jackson Run	Gabion	Home	Lonaconing	\$ 29,150	30
6	5	B	Jackson Run	Riprap	Home	Lonaconing	\$ 5,000	30
6a		B	Jackson Run	Riprap	Road	Lonaconing	\$ 17,100	30
7	11	C	Jackson Run	Gabions/Riprap	Road	Lonaconing	\$ 126,000	10
8	4		Jackson Run	Deposition(remove)	Home	Lonaconing	\$ 3,000	
9	9	C	Jackson Run	Deposition	Home	Lonaconing	\$ 1,200	
10	8	C	Jackson Run	Deposition	Home	Lonaconing	\$ 2,900	
11	1	C	Jackson Run	Concrete	Bridge	Lonaconing	\$ 14,450	36
12	10	HD	Jackson Run	Debris	Remove Barn	Lonaconing	\$ -	
13			Jackson Run	Riprap	Dam	Lonaconing	\$ 20,000	
14		C	Jackson Run	Deposition	Bridge	Allegany		
1	13	B	Jennings Run	Riprap	Bridge & Bank	Allegany	\$ 6,250	34
1A		B	Jennings Run	Deposition	Homes, Road	Allegany	\$ 20,000	14
2	6	B	Jennings Run	Riprap	Bridge & Bank	Allegany	\$ 20,000	34
3	15	C	Jennings Run	Deposition	County Road	Allegany	\$ 3,268	14
3a	38	C	Jennings Run	Debris Removal	Homes	Allegany	\$ 5,000	
3b			Jennings Run	Deposition	Road	Allegany	\$ 6,000	14
4	20	C	Jennings Run	Deposition	Public Road	Allegany	\$ 3,268	14
4a		C	Jennings Run	Deposition	Homes	Allegany	\$ 2,000	
5	1		Jennings Run	Deposition	Homes	Allegany	\$ 5,000	
5A	1		Jennings Run	Gabions, Riprap	County Rd.,Homes	Allegany	\$ 40,000	
5B		C	Jennings Run	Deposition	Homes	Allegany	\$ 1,000	
5C			Jennings Run	Deposition	Sewer	Allegany	\$ 3,000	
6	3	C	Jennings Run	Gabions	Bridge	Allegany	\$ 49,000	19
6A		C	Jennings Run	Tree Removal	Home	Allegany	\$ 1,000	

Legend: S - surveyed

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C - completed

H - Hold

\* - FEMA DSR

# PROJECT STATUS

1/10/97

Site No.	Priority	Status	Watershed	Work	Protects	Town or County	Estimated Cost	IFB / REQ
7	19	C	Jennings Run	Deposition	Public Road	Allegany	\$ 3,268	14
8	12	C	Jennings Run	Deposition	Buildings	Allegany	\$ 3,268	14
9	21	H	Jennings Run	Concrete	Bridge	Allegany	\$ 10,000	
10	11	C	Jennings Run	Gabions	Bridge	Allegany	\$ 18,000	19
10A		S	Jennings Run	Deposition	Bridge	Allegany	\$ 2,000	
10B		C	Jennings Run	Deposition	Co.Roads	Allegany	\$ 2,000	14
11	14	C	Jennings Run	Deposition	County Road	Allegany	\$ 3,268	14
11A			Jennings Run	Deposition	Pool	Allegany	\$ 5,000	
12	4	C	Jennings Run	Concrete	Bridge	Allegany	\$ 16,500	19
13	16	B	Jennings Run	Gabions	Bridge	Allegany	\$ 14,000	14
14	17	B	Jennings Run	Deposition	Bridge	Allegany	\$ 3,268	14
15	10	H	Jennings Run	Concrete	Bridge - No Damage	Allegany		
16	18	C	Jennings Run	Deposition	Bridge	Allegany	\$ 3,268	14
17	9	C	Jennings Run	Concrete	Bridge	Allegany	\$ 20,000	25
19	7	B	Jennings Run	Deposition	Bridge	Allegany	\$ 3,268	14
20	5	C	Jennings Run	Concrete	Bridge	Allegany	\$ 15,700	25
21	2	B	Jennings Run	Deposition	Bridge	Allegany	\$ 3,268	14
22			Jennings Run	Deposition	Homes	Allegany		14
1	6	B	Koontz Run	Gabion	Bridge	Lonaconing	\$ 97,730	20
1A		S	Koontz Run	Precast	Road	Lonaconing	\$ 70,000	
1B			Koontz Run	Underpin	Bridge	Allegany	\$ 5,000	
2	3	B	Koontz Run	Gabions	Roadway	Lonaconing	\$ 10,440	20*
3		B	Koontz Run	Gabions	Road	Lonaconing	\$ 10,760	20
4		B	Koontz Run	Gabion	Bridge	Lonaconing	\$ 15,580	20
5		B	Koontz Run	Gabions	Road/Drwy Bridge	Lonaconing	\$ 1,100	20
5A		H	Koontz Run	Riprap	Phone Pole	Lonaconing	\$ -	20
6	2	B	Koontz Run	Gabion	Bridge	Lonaconing	\$ 16,000	20
7	1	H	Koontz Run	Concrete	Bridges	Allegany		*

Legend: S - surveyed

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H - Hold

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USDA, Natural Resources Conservation Service  
Emergency Watershed Protection

**PROJECT STATUS**

Site No.	Priority	Status	Watershed	Work	Protects	Town or County	Estimated Cost	IFB / RFQ
8		B	Koontz Run	Gabions	Road	Allegany	\$ 16,100	20
9	7	H	Koontz Run	Riprap	Bridge	Allegany		*
10	4	H	Koontz Run	Concrete	Bridge	Allegany		
11	5	S	Koontz Run	Debris Removal	Roadway	Allegany	\$ 2,000	
1	5	H	Laurel Run	Concrete	Bridge / Co. Road	Allegany	\$ 10,000	
2	2		Laurel Run	Deposition	Home/Shed	Allegany	\$ 2,000	
3	6	H	Laurel Run	Bnk Prtct	Yard	Allegany		
3A		D	Laurel Run	Riprap	Home	Allegany	\$ 10,000	
3B		D	Laurel Run	Riprap	County Road	Allegany	\$ 20,000	
3C			Laurel Run	Deposition	Home	Allegany	\$ 3,000	
3D			Laurel Run	Deposition	Road	Allegany	\$ 5,000	
4	4	H	Laurel Run	Concrete	Drwy Bridge	Allegany	\$ 2,000	
5	3	H	Laurel Run	Concrete	Drwy Bridge	Allegany	\$ 1,800	
6	1	H	Laurel Run	Concrete	Bridge	Allegany	\$ 7,500	*
1	1	H	Mill Run	Concrete	County Bridge	Allegany		*
2	6		Mill Run	Riprap	Drwy Bridge	Allegany	\$ 5,000	
3	3		Mill Run	Concrete	Drwy Bridge	Allegany	\$ 4,250	
4	5		Mill Run	Deposition	County Road	Allegany	\$ 2,000	
5	2		Mill Run	Gabions	County Road	Allegany	\$ 13,200	*
6	4		Mill Run	Riprap	Home / Shed	Allegany	\$ 2,000	
1		C	Mill Run	Concrete	Bridge	Garrett	\$ 7,650	26
2		H	Mill Run	Deposition	Bridge	Garrett		

Legend: S - surveyed

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C - completed

H - Hold

\* - FEMA DSR

# PROJECT STATUS

1/10/97

Site No.	Priority	Status	Watershed	Work	Protects	Town or County	Estimated Cost	IFB / RFQ
1	5	H	Neff Run	Concrete	Wall - No Damage	Midland		
2	1	B	Neff Run	Concrete/Weirs	Walls	Midland	\$ 47,000	29*
3	3	B	Neff Run	Concrete	Bridge	Allegany	\$ 7,450	29
4	9		Neff Run	Deposition/Riprap	Co. Road	Allegany	\$ 5,000	
5	5	B	Neff Run	Riprap/Deposition	Sewer Line	Allegany	\$ 14,000	29
5A			Neff Run	Deposition	Yard	Allegany	\$ 2,000	
6	2	B	Neff Run	Concrete	Bridge	Allegany	\$ 20,000	29
7	7	C	Neff Run	Deposition	Co. Road	Allegany	\$ 5,000	
8	4	B	Neff Run	Concrete	Garage	Allegany	\$ 5,000	29
9	6	C	Neff Run	Deposition	Home	Allegany	\$ 5,000	
10	8		Neff Run	Deposition	Co. Road	Allegany	\$ 2,000	
1		B	N. Branch Potomac	Deposition	Road	Garrett	\$ 13,520	12
2		B	N. Branch Potomac	Deposition	Road	Garrett	\$ 13,520	12
3		B	N. Branch Potomac	Deposition	RR Bridge	Garrett	\$ 13,520	12
1	4	B	Oldtown	Deposition Removal	Sewer Treatment	Allegany	\$ 3,279	13
2	3		Oldtown	Gabions	Driveway	Allegany	\$ 10,000	
3	9	B	Oldtown	Deposition Removal	Field	Allegany	\$ 3,279	13
4	8	B	Oldtown	Deposition Removal	Lawn	Allegany	\$ 3,279	13
5	2	B	Oldtown	Deposition Removal	Home	Allegany	\$ 3,279	13
6	5	B	Oldtown	Deposition Removal	Road Culvert	Allegany	\$ 3,279	13
7	6	B	Oldtown	Deposition Removal	Bridge / Camp	Allegany	\$ 3,279	13
8	7	C	Oldtown	Deposition Removal	Road	Allegany	\$ 1,700	13

Legend: S - surveyed

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H - Hold

\* - FEMA DSR

USDA, Natural Resources Conservation Service  
Emergency Watershed Protection

**PROJECT STATUS**

Site No.	Priority	Status	Watershed	Work	Protects	Town or County	Estimated Cost	IFB / RFQ
9	1	C	Oldtown	Deposition Removal	Home/Culvert	Allegany	\$ 1,600	13
1		H	Potomac Hollow	Concrete	Bridge	Allegany	\$ 1,500	
2			Potomac Hollow	Riprap	Home	Allegany	\$ 5,000	
3								*
4			Potomac Hollow	Riprap	Home	Allegany	\$ 10,000	
1	23	C	Rt. 220 South	Deposition Removal	Culvert	Allegany	\$ 1,786	22
2	33	C	Rt. 220 South	Deposition Removal	Trailer / Bridge	Allegany	\$ 1,786	22
3	34	B	Rt. 220 South	Concrete	Gabions / Road	Allegany	\$ 3,600	23
4	22	B	Rt. 220 South	Riprap	Culvert / Home	Allegany	\$ 14,046	23
5	21	C	Rt. 220 South	Deposition Removal	Culvert / Road	Allegany	\$ 1,786	22
6	35	C	Rt. 220 South	Deposition Removal	Road	Allegany	\$ 1,786	22
7	36	C	Rt. 220 South	Deposition Removal	Culvert / Road	Allegany	\$ 1,786	22
8	32	B	Rt. 220 South	Concrete	Outbuilding	Allegany	\$ 5,800	23
8a		C	Rt. 220 South	Deposition	Home	Allegany	\$ 1,500	22
9	11	C	Rt. 220 South	Deposition Removal	Home/Business	Allegany	\$ 1,786	22
9a			Rt. 220 South	Deposition	Shopping Center	Allegany	\$ 2,500	22
9b			Rt. 220 South	Deposition	Home	Allegany	\$ 1,500	22
10	19		Rt. 220 South	Concrete	Business	Allegany	\$ 20,000	
10a			Rt. 220 South	Riprap	Workshop	Allegany		
11	20		Rt. 220 South	Gabions	Business	Allegany	\$ 52,000	
12	37	C	Rt. 220 South	Deposition Removal	Pasture	Allegany	\$ 1,786	22
13	26	B	Rt. 220 South	Concrete	Home	Allegany	\$ 10,845	23
13a			Rt. 220 South	Deposition	Barn/Stable	Allegany	\$ 3,000	22
14	24	C	Rt. 220 South	Deposition Removal	Yard	Allegany	\$ 1,786	22
15	25	C	Rt. 220 South	Deposition Removal	Footbridge / Yard	Allegany	\$ 1,786	22

Legend: S - surveyed

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C - completed

H - Hold

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# PROJECT STATUS

1/10/97

Site No.	Priority	Status	Watershed	Work	Protects	Town or County	Estimated Cost	IFB / RFQ
16	10	C	Rt. 220 South	Deposition Removal	Homes	Allegany	\$ 1,786	22
17	12	C	Rt. 220 South	Deposition Removal	Home / Highway	Allegany	\$ 1,786	22
17a		C	Rt. 220 South	Underpinning	Garage	Allegany		23
18	3	C	Rt. 220 South	Deposition Removal	Bridge/Home	Allegany	\$ 1,786	22
19	13	C	Rt. 220 South	Deposition Removal	Garage	Allegany	\$ 1,786	22
19a		C	Rt. 220 South	Deposition	Bridge	Allegany		22
19b			Rt. 220 South	Concrete	Bridge	Allegany		23
20	14	C	Rt. 220 South	Riprap	Bridge	Allegany	\$ 10,540	23
21	6	C	Rt. 220 South	Deposition Removal	Home	Allegany	\$ 1,786	22
22	9	C	Rt. 220 South	Riprap	Home	Allegany	\$ 2,080	23
23	2	C	Rt. 220 South	Gabions	Home / Carport	Allegany	\$ 26,200	23
24	15	C	Rt. 220 South	Deposition Removal	Highway	Allegany	\$ 1,786	22
25	31	C	Rt. 220 South	Deposition Removal	Home	Allegany	\$ 1,786	22
26	7	C	Rt. 220 South	Deposition Removal	Road / Ford	Allegany	\$ 1,786	22
27	27	C	Rt. 220 South	Deposition Removal	Home	Allegany	\$ 1,786	22
28	1	C	Rt. 220 South	Gabions	Bridge / Septic	Allegany	\$ 18,200	23
29	17	C	Rt. 220 South	Deposition Removal	Bridge	Allegany	\$ 1,786	22
30	18	C	Rt. 220 South	Deposition Removal	Bridge	Allegany	\$ 1,786	22
30a			Rt. 220 South	Deposition	Bridge/Road	Allegany	\$ 2,000	22
31	8	C	Rt. 220 South	Deposition	Bridge	Allegany	\$ 1,786	22
32	28	C	Rt. 220 South	Deposition Removal	Yard	Allegany	\$ 1,786	22
32a		C	Rt. 220 South	Imbricated riprap	Bridge	Allegany		23
33	5	B	Rt. 220 South	Gabion	Home	Allegany	\$ 31,350	23
34	29	C	Rt. 220 South	Deposition Removal	Pond	Allegany	\$ 1,786	22
34A			Rt. 220 South	Riprap	Pond	Allegany	\$ 3,000	
35	30	C	Rt. 220 South	Deposition Removal	Home	Allegany	\$ 1,786	22
1			Sand Springs Run	Deposition	Lane / Barns	Frostburg	\$ 1,500	
2			Sand Springs Run	Deposition	Parking Lot	Frostburg	\$ 1,500	

Legend: S - surveyed

D - designed

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C - completed

H - Hold

\* - FEMA DSR

USDA, Natural Resources Conservation Service  
Emergency Watershed Protection

**PROJECT STATUS**

Site No.	Priority	Status	Watershed	Work	Protects	Town or County	Estimated Cost	IFB / RFQ
3			Sand Springs Run	Riprap	Sewer	Frostburg	\$ 10,000	
1			Savage River	Riprap	Road	Garrett	\$ 65,000	
2		H D	Savage River	Riprap	Road	Garrett	\$ 75,000	
3		D	Savage River	Deposition	Road	Garrett	\$ 12,000	
4		D	Savage River	Deposition	Road	Garrett	\$ 16,000	
5		B	Savage River	Riprap	Road	Garrett	\$ 23,250	27
6		B	Savage River	Riprap	Road	Garrett	\$ 14,600	27
7		B	Savage River	Riprap	Bridge	Garrett	\$ 23,250	27
8		D	Savage River	Deposition	Homes	Garrett	\$ 20,000	
1		B	Stoney Run	Stream Restoration	Road	Allegany	\$ 50,000	
1	1	C	Town Creek	Deposition	Bridge	Allegany	\$ 2,000	13
2	3	B	Town Creek	Deposition	Bridge / Field	Allegany	\$ 3,279	13
3	5	B	Town Creek	Dike	Field	Allegany	\$ 1,200	13
4	8	B	Town Creek	Deposition	Field	Allegany	\$ 3,279	13
5	10	B	Town Creek	Riprap	Bridge	Allegany	\$ 3,279	13
6	4	B	Town Creek	Deposition	Culvert / Road	Allegany	\$ 3,279	13
7	2	B	Town Creek	Deposition	Home/Lawn	Allegany	\$ 3,279	13
8	7	B	Town Creek	Deposition	Field	Allegany	\$ 3,279	13
9	9	B	Town Creek	Deposition	Field	Allegany	\$ 3,279	13
10	6	B	Town Creek	Deposition	Field	Allegany	\$ 3,279	13

Legend: S - surveyed

D - designed

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H - Hold

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# PROJECT STATUS

1/10/97

Site No.	Priority	Status	Watershed	Work	Protects	Town or County	Estimated Cost	IFB / RFQ
1			Unnamed Trib	Deposition	Home	Allegany	\$ 6,000	
2		H	Unnamed Trib	Concrete	Road	Allegany		
3			Unnamed Trib	Concrete	Sewer	Allegany	\$ 10,000	
1	6		Old Dans Rock Rd.	Deposition	Homes	Allegany	\$ 5,000	
2	3	B	Old Dans Rock Rd.	Gabions	Co. Road	Allegany	\$ 10,000	29
3	4	B	Old Dans Rock Rd.	Gabions	Bridge	Allegany	\$ 10,000	29
4	2	B	Old Dans Rock Rd.	Concrete	Bridge	Allegany	\$ 5,000	29
5	5	H	Old Dans Rock Rd.	Imbricated Riprap	Co. Road	Allegany		
6	1	H	Old Dans Rock Rd.	Concrete	Bridge	Allegany		
1	2	B	Water Station Run	Gabions	Road	Allegany	\$ 27,259	33*
1A		B	Water Station Run	Gabion	Road	Allegany	\$ 14,650	33
2	1	B	Water Station Run	Gabion	Lane/Bridge	Allegany	\$ 25,950	33
3	3	H S	Water Station Run	Gabions	Shed	Allegany	\$ 5,000	
3A			Water Station Run	Debris	Homes	Allegany	\$ 1,000	
4	4	H D	Water Station Run	Concrete	Bridge/Road	Allegany		
1			Wills Creek	Riprap	Business	Allegany	\$ 100,000	
2			Wills Creek	Debris		Allegany	\$ 20,000	

Legend: S - surveyed

D - designed

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C - completed

H - Hold

\* - FEMA DSR

**PROJECT STATUS**

1/10/97

Site No.	Priority	Status	Watershed	Work	Protects	Town or County	Estimated Cost	IFB / RFQ
							\$ 5,878,105	

Legend: S - surveyed  
D - designed  
B - Bid Package/ Under Contract  
C - completed  
H - Hold  
\* - FEMA DSR

# Status Listing

Frederick County  
Emergency Watershed Protection Program  
Site Location and Priority List  
November 16, 1996  
\* under contract  
\*\* complete

PRIORITY	SITE	NAME	DESCRIPTION	COST	ACTION	IN KIND COST
** 1	16	Hampton Valley Rd at Annandale Rd	Concrete/Debris	\$	NRCS	
** 2	15	Grant Abrahams (Turkey Creek)	Debris/Concrete	\$	NRCS	
* 3	10	Kelbaugh Rd at Smith Rd	Gabion/Debris	\$	NRCS	
		Total this contract		\$ 88,621.82		
** 4	7	Poffenberger Rd at Catoclin Creek	Gablon	\$	NRCS	
**	38	Corun Road @ Poffenburger Rd.	Deposition	\$	NRCS	
		Total this contract		\$ 87,690.00		
** 5	12	Eylers Valley Rd (Little Owens Creek)	Deposition	\$	NRCS	
**	17	Fred Furhman	Deposition	\$	NRCS	
** 8	9	Rodman Myers (up to Kelbaugh Rd)	Deposition	\$	NRCS	

PROJECT STATUS

**	20	Dawn Early	Deposition	\$	NRCS
** 6	18	Franklinville Rd at mini mall	Deposition	\$	NRCS
** 7	27	Black Mills Road (Hunting Creek)	Deposition	\$	NRCS
**	45	Runkles	Deposition	\$	NRCS
		<b>Total this contract</b>		<b>\$ 54,615.23</b>	
**13	25	Talbot Run Rd (Talbot Branch)	Gabion	\$	NRCS
**14	26	Black Ankle Rd (Talbot Branch)	Gabion	\$	NRCS
		<b>Total this contract</b>		<b>\$ 40,419.00</b>	
** 9	44A	Reichs Ford Road (Trib to Bush Creek)	Gabion	\$	NRCS
**10	44B	Reichs Ford Rd. ( Trib to Bush Creek)	Gabion	\$	NRCS
**11	2	Thurston Rd (Bennetts Creek)	Gabion	\$	NRCS
		<b>Total this contract</b>		<b>\$ 48,641.41</b>	
**	47	Russell Baker (Harmony)	Encasement	\$	NRCS
**15	19	Steve Springer / Watermain (Annandale Road)	Gabion/Riprap	\$	NRCS
**15	30	Watermain (Tom's Creek @ Annandale Bridge)	Encasement	\$	NRCS
**15	31	Watermain (Tom's Creek @ Annandale Road)	Encasement	\$	NRCS

**15	34	Watermain (Turkey Creek @ Andrew's)	Encasement	\$	NRCS
		Total this contract		\$	35,409.70
**	22	Russ Horman (Middle Creek)	Debris	\$	2,500.00 NRCS
**	28	Daniel Trey (Friends Creek)	Debris/RipRap	\$	SPONSOR
**	43	Tom Sheralds on Annandale Road	Deposition	\$	SPONSOR
**	18	Kelbaugh Rd at St. Anthony Rd	Debris	\$	SPONSOR
**	41	Fishers Hollow Rd (Driveways) (trib Catoctin C)	Deposition	\$	SPONSOR
**	39	Fishers Hollow Road (Unnamed trib to Catoctin)	Deposition	\$	SPONSOR
**	40	Brethren Church Road (Catoctin Creek)	Deposition	\$	SPONSOR
**	1	Davidson (Bennetts Creek)	Debris/RipRap	\$	SPONSOR
**	23	Price's Distillery Rd at Haines Rd	Debris	\$	SPONSOR
**	35	Weller Road near Lynn Burke Road	Debris	\$	SPONSOR
		Total In-kind cost		\$	20706.08

Work completed under NRCS contracts:

COST \$ 357,897.16

Work completed by the sponsor (in-kind projects):

\$ 20,706.08

Total project cost:

\$ 378,603.24

210' 00" 134

The sites below were not completed due to time, money, accessibility, land rights, or other constraints.

PRIORITY	SITE	NAME	DESCRIPTION	ESTIMATED COST	ACTION	ESTIMATED IN KIND COST
15	32	Watermain (Turkey Creek @ Miller's)	Encasement	\$ 10000	NRCS	
12	21	Below Hampton Rd and Annandale Rd	Debris/Headwall	\$ 18500	NRCS	
15	33	Watermain (Turkey Creek @ A frame House)	Encasement	\$ 3000	NRCS	
15	42	Turkey Creek @ Reservoir # 1	Deposition & ?	\$ 16500	NRCS	
	36	Tom Hattery	Gabion	\$ 18000	NRCS	
	13	Eyler Valley Church	Debris	\$ 1400	SPONSOR	\$ 1400
	37	Weller Road (Church Branch)	Debris	\$ 2000	NRCS	

# SHORT-TERM ACTION PLAN

## TAB 2

### RECOMMENDED ACQUISITIONS



# ACQUISITIONS

SITE	PLANNED		FUTURE	ESTIMATED	PROBABLE
	ACQUISITIONS	ACQUISITIONS			
	(0-12 MOS.)	(+12 MOS.)		COST	SOURCE(S)
ALLEGANY COUNTY					
George's Creek Watershed	28			1,213,000	NRCS, SHA, Allegany County
Westernport	2			62,000	HUD/DHCD
Franklin		2		44,000	*TBD
Reynolds		2		66,000	*TBD
Mill Run		1		56,000	MDE, Allegany County
Barton	4			154,000	MDE, DNR, HUD/DHCD, Allegany County
below Barton	2	4		234,000	HUD/DHCD
Temperance Row	0	35		1,365,000	*TBD
Pekin/Moscow	17	14		1,238,000	FEMA, MDE, DNR, HUD/DHCD, Allegany County
Lonaconing	4	14		680,000	FEMA, MDE, HUD/DHCD, Allegany County
Midland/Gilmore	57	72		5,112,000	
Sub-total					
Wills Creek Watershed					
Locust Grove	9	24		1,401,000	FEMA, MDE, HUD/DHCD, Allegany County
Corriganville	4	3		302,000	HUD/DHCD, DNR
Ellerslie	4	5		504,000	HUD/DHCD
Sub-total	17	32		2,207,000	
Jennings Run Watershed					
Cash Valley Road		5		190,000	*TBD
Barrelville/Sunnyside		9		454,000	*TBD
Rt. 36 below Barrelville		7		620,000	*TBD
Zihlman		2		62,000	*TBD
Sub-total	0	23		1,326,000	
Evitts Creek Watershed					
Baltimore Pike	1			131,000	*TBD
Creek Road Trailer Park		18		600,000	*TBD
Sub-total	1	18		731,000	



# ACQUISITIONS

page two of three

SITE	PLANNED ACQUISITIONS (0-12 MOS.)	FUTURE ACQUISITIONS (+12 MOS.)	ESTIMATED COST (\$)	PROBABLE FUNDING SOURCE(S)
<b>Tom's Hollow Watershed</b>				
Rawlings - McCoole		1	46,000	*TBD
<b>Sub-total</b>	0	1	46,000	
<b>Town Creek</b>				
Warm Springs		1	46,000	*TBD
Dickerson Hollow		2	90,000	*TBD
Oldtown/Flintstone	1	1	134,000	HUD/DHCD
<b>Sub-total</b>	1	4	270,000	
<b>Warrior Run Watershed</b>				
Cresaptown		4	143,000	*TBD
<b>Sub-total</b>	0	4	143,000	
<b>Braddock Run Watershed</b>				
LaVale		9	560,000	*TBD
<b>Sub-total</b>	0	9	560,000	
<b>ALLEGANY COUNTY TOTALS</b>	76	163	10,395,000	
Estimated affected population: 601				
<b>WASHINGTON COUNTY</b>				
Funkstown		7	315,000	*TBD
Trailer Park		12	300,000	*TBD
Williamsport and vicinity		15	875,000	*TBD
Harcock	1	14	362,870	*TBD
<b>Sub-total</b>	1	48	1,852,870	
<b>WASHINGTON COUNTY TOTALS</b>	1	48	1,852,870	
Estimated affected population: 131				

# ACQUISITIONS

page three of three

SITE	PLANNED ACQUISITIONS (0-12 MOS.)	FUTURE ACQUISITIONS (+12 MOS.)	ESTIMATED COST (\$)	PROBABLE FUNDING SOURCE(S)
<b>GARRETT COUNTY</b>				
Youghiogheny Watershed				
Crellin	1		55,000	HUD/DHCD, WCO, DNR
Oakland	1		24,000	FEMA, Oakland
Sub-total	2	0	79,000	
<b>North Branch Potomac Watershed</b>				
Gorman	4	3	160,000	*TBD
Althouse Road	2	2	60,000	*TBD
Bear Creek	1	1	50,000	*TBD
Shallmar	1		56,000	*TBD
Casselman River	3	3	150,000	*TBD
Sub-total	11	9	476,000	
<b>GARRETT COUNTY TOTALS</b>	<b>3</b>	<b>9</b>	<b>555,000</b>	
Estimated affected population: 29				
<b>FREDERICK COUNTY</b>				
Point of Rocks	8		400,000	*TBD
Sub-total	8	0	400,000	
<b>FREDERICK COUNTY TOTALS</b>	<b>8</b>	<b>0</b>	<b>400,000</b>	
Estimated affected population: 19				
<b>Grand Totals</b>	<b>88</b>	<b>220</b>	<b>13,202,870</b>	
Estimated total affected population: 780				

## Notes:

- Possible funding sources include: NRCS, FEMA, MDE, HUD/DHCD, DNR, SHA, counties.
- Estimated costs do not necessarily reflect appraised values.
- Westport project includes relocation costs; other Allegany County acquisition estimates include amounts for appraisals, demolitions, and legal expenses.
- The analysis and conclusions have been made under the assumption that all owners of subject properties are willing sellers.
- Total number of structures recommended for acquisition is 308.
- Estimated population calculated by multiplying number of acquisitions by 2.4 and includes 46 people in two rental properties.
- TBD--to be determined.

# SHORT-TERM ACTION PLAN

## TAB 3

### CURRENT MITIGATION EFFORTS IN ALLEGANY COUNTY

## CURRENT MITIGATION EFFORTS IN ALLEGANY COUNTY

1. **SUMMARY:** The following projects are important mitigation efforts that are currently underway in Allegany County. These projects are separate from previously listed Natural Resources Conservation Service projects, and do not represent property acquisitions or long-term efforts. Each project also identifies the agencies which have agreed to help implement recommended solutions.

2. **PROJECTS:**

- a. Westernport Hill: Mining slide and stormwater management project (MDE, Allegany County, Bureau of Mines).
- b. Reynolds-Morrison: Clear clogged culverts on treatment plant road (SHA, Allegany County).
- c. Mill Run: Investigate drainage in the Kyles Hill area (NRCS).
- d. Barton: Investigate slide area in the vicinity of Route 935 and Georges Creek (NRCS, SHA)
- e. Pekin: Abandoned mine drainage control (NRCS, SHA).
- f. Lonaconing: Remove road embankment failure hazard at Charlestown (NRCS).
- g. Gilmore: Relocate Beeman Road Bridge (Allegany County)
- h. Midland: Investigate and repair Squirrel Neck Road riprap failure (Bureau of Mines).
- i. Grahamtown: Provide additional culvert capacity at Welsh Hill Road (Allegany County).
- j. Braddock Run:
  - Increase culvert size at Piney Mountain Road (Allegany County).
  - Maintain Spruce Hollow impoundment (NRCS to coordinate).
- k. Cumberland: Investigate and correct C&O Canal drainage problems (City of Cumberland, National Park Service)
- l. Upper Potomac Industrial Park: Verify causes of flooding and flood elevations; recommend possible mitigation measures (MDE, Corps of Engineers)

- m. Seven Springs Run (Oldtown): Check and clean abandoned railroad culvert (National Park Service).
- n. Evitts Creek (Williams Road to Potomac): Remove deposition from creek (NRCS).
- o. Entire County: Compare and verify flood management studies with observed flood levels of January and September 1996 (MDE, Allegany County).

3. INDIVIDUAL MITIGATION ASSISTANCE: Technical assistance to individual homeowners and businesses is being provided to residents of Allegany County through a joint effort of Allegany County Emergency Management, MDE, MEMA, NRCS and FEMA. This assistance includes on-site visits by a team trained to recognize and recommend mitigation measures such as floodproofing or retrofitting for individual structures.

## SECTION 5

### LONG-TERM WORKGROUP ACTION PLAN

## CURRENT MITIGATION PROJECTS

### IN ALLEGANY COUNTY

1. Seven abandoned bridges on the Allegheny River and its tributaries (National Park Service)
2. Everts Creek (Williams Road to Potomac): Remove debris from creek (NRCS)
3. Individual Mitigation Assistance: Individual homeowners and businesses are being provided to residents of Allegheny County through a joint effort of Allegheny County Emergency Management, MDE, MEMA, NRCS and FEMA. This assistance includes site visits by a team trained to recognize and recommend mitigation measures such as floodproofing of buildings, flood-resistant materials, and floodwater management project (Bureau of Mines, Allegheny County, Bureau of Mines)
4. Randolph-Monroeville: Clear clogged culverts on treatment plant road (SHA, Allegheny County)
5. Mt. Run: Investigate drainage in the Kyle Hill area (NRCS)
6. Barren: Investigate slide area in the vicinity of Route 515 and Gorges Creek (NRCS, SHA)
7. Pain: Abandoned mine drainage control (NRCS, SHA)
8. Loconing: Remove road embankment failure hazard at Chardown (NRCS)
9. Elmore: Replace Stearns Road Bridge (Allegheny County)
10. Milford: Investigate and repair Laurel Neck Road riprap failure (Bureau of Mines)
11. Grafton: Provide additional culvert capacity at Welch Hill Road (Allegheny County)
12. Bedrock Run:
  - Increase culvert size at Piney Mountain Road (Allegheny County)
  - Fairmount Spruce Hollow Impoundment (NRCS to coordinate)
13. Cumberland: Investigate and correct C&D Canal drainage problems (City of Cumberland, National Park Service)
14. Light Potomac Industrial Park: Verify causes of flooding and flood elevations; recommend possible mitigation measures (MDE, Corps of Engineers)

## LONG-TERM WORK GROUP ACTION PLAN

# GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

## FINAL REPORT

### SECTION 5

## LONG-TERM WORKGROUP ACTION PLAN

**OBJECTIVE:** The objective of this plan is to identify the studies and actions necessary to reduce and/or minimize flood related damages in the watersheds of Western Maryland. The plan focuses on the long term and is meant to address the larger and less clearly defined problems. In this sense, the long-term plan complements the short-term plan which focuses on specific problem areas with known solutions.

Each action identified in this plan will require studies to determine the applicability and feasibility of the identified potential solution. In some cases, potential solutions are not known since the nature of the problem is not well-defined, and as a result a comprehensive study may be required. In this sense, the long term plan outlines a process through a series of actions by which the flood-related damages currently being experienced in Western Maryland may be minimized.

### 2. SIGNIFICANT ACTIONS REQUIRED:

The following Section identifies the flood-related problems in the four Western Maryland Counties by location, presents potential solutions to the

GOVERNOR'S FLOOD MITIGATION TASK  
FORCE FOR WESTERN MARYLAND

FINAL REPORT

SECTION 5

LONG-TERM WORKGROUP  
ACTION PLAN



## **LONG-TERM WORK GROUP ACTION PLAN**

1. **STATEMENT OF THE PROBLEM:** High volume rainfall, with corresponding runoff, is the chief cause of flooding within the watersheds of Western Maryland (Allegany, Frederick, Garrett, Washington counties). These watersheds have experienced a number of major flood events in the recent past, including three within the last year. While these were extreme events, their occurrence over a short-time frame has served as the catalyst for the formation of a Task Force to conduct a comprehensive review of their causes and identification of potential methods for minimizing their impacts.

Flooding is a natural phenomenon that can result in damages to infrastructure in its path. Development (commercial, industrial, and residential) both in the floodplain and in the uplands has both increased the stormwater runoff and decreased the floodplain available to attenuate the increased flows. As a result, the people and facilities located within the floodplains of Western Maryland suffer damages from any storm event producing greater than 3 inches of rainfall over a 24-hour period.

**OBJECTIVE:** The objective of this plan is to identify the studies and actions necessary to reduce and/or minimize flood related damages in the watersheds of Western Maryland. The plan focuses on the long-term and is meant to address the larger and less easily defined problems. In this sense, the long-term plan complements the short-term plan which focuses on specific problem areas with known solutions.

Each action identified in this plan will require studies to determine the applicability and feasibility of the identified potential solution. In some cases, potential solutions are not known since the nature of the problem is not well-defined, and as a result a comprehensive study may be required. In this sense, the long term plan outlines a process through a series of actions by which the flood-related damages currently being experienced in Western Maryland may be minimized.

### **2. SIGNIFICANT ACTIONS REQUIRED:**

The following Section identifies the flood-related problems in the four Western Maryland Counties by location, presents potential solutions to the

problems, and, where available, their associated cost. In addition, those issues which are common to all four counties and/or require a comprehensive study approach have been grouped together.

a. ALL COUNTIES:

1) Location: North Branch, Georges Creek, Youghiogheny River, Wills Creek, Evitts Creek, Casselman River Basin, and their tributaries

Problem: Need to minimize the impacts of flooding on citizens in Western Maryland and provide ecosystem restoration

Potential Solution: Comprehensive Watershed Studies

Cost: TBD

2) Location: C&O Canal

Problem: Flood damage and debris accumulation

Potential Solution: Initiate repairs and debris removal; investigate and undertake actions necessary to modernize portion of the C&O Canal

Cost: Repair and debris removal -\$500,000/county; study-TBD

3) Location: Potomac River Basin

Problem: Need to improve flood forecasting ability

Potential Solution: Investigate ways to improve existing flood forecast and warning system; prepare a Flood Warning and Preparedness Plan

Cost: TBD

4) Location: CSX infrastructure in all four counties

Problem: Debris accumulation and backwater flooding potential

Potential Solution: Evaluate structures for potential to restrict and divert water flow

Cost: TBD

b. ALLEGANY COUNTY:

1) Location: Braddock Run along US 40, LaVale, NW of Braddock Inn (Public Property)

**Problem:** Streambank Erosion and Stormwater Detention.

**Potential Solution:** Investigate level of action required--

Emergency Streambank Protection (short-term) and/or

Reconnaissance-level study (long-term).

**Cost:** \$100,000

**2) Location:** Railroad bridge on Wills Creek vicinity Locust Grove

**Problem:** Backwater flooding

**Potential Solution:** Conduct hydrology & hydraulic analysis to determine backwater flooding causes in order to determine if bridge removal of bridge will alleviate problem

**Cost:** TBD

**3) Location:** Barton, Lonaconing, Westernport and Midland

**Problem:** Chronic flooding

**Potential Solution:** Stabilize WPA flood walls and investigate flood damage reduction alternatives

**Cost:** TBD

**4) Location:** Wills Mountain, Haystack Mountain, Frostburg, Braddock Run and Barton vicinity

**Problem:** Stormwater management

**Potential Solution:** Investigate potential stormwater management improvements for existing developments

**Cost:** TBD

**5) Location:** Braddock Run

**Problem:** Chronic Flooding

**Potential Solution:** Investigate flood damage reduction alternatives

**Cost:** \$30,000 (NRCS - PL-566)

**c. FREDERICK COUNTY:**

**1) Location:** Brunswick

**Problem:** Flood damage (Potomac River)

**Potential Solution:** Investigate potential flood damage reduction measures for area

Cost: \$100,000 (Reconnaissance Study)

2) Location: Point of Rocks

Problem: Flood damage (Potomac River)

Potential Solution: Investigate potential flood damage reduction measures for area

Cost: \$100,000 (Reconnaissance Study)

3) Location: Emmitsburg/Thurmont

Problem: Tributary flooding (sediment deposition and portion of watershed in PA).

Potential Solution: Investigate potential flood damage reduction measures for the area

Cost: TBD

d. GARRETT COUNTY:

1) Location: Shallmar (Abrams Creek confluence with Potomac river)

Problem: Flood damage

Potential Solution: Investigate potential flood damage reduction measures for area

Cost: TBD

2) Location: Friendsville (Youghiogheny River/Bear Creek)

Problem: Streambank erosion and damage to existing flood control structure

Potential Solution: Emergency Streambank Protection Reconnaissance Study and investigate additional potential flood damage reduction measures for the area

Cost: TBD

3) Location: Shallmar Road

Problem: Streambank erosion and damage to road

Potential Solution: Complete on-going repairs and investigate additional potential flood damage reduction measures for the area

Cost: Repair-\$784,000; Study-TBD

4) Location: Crellin

Problem: Streambank erosion near historic bridge

Potential Solution: Investigate potential flood damage reduction measures for the area

Cost: TBD

5) Location: Savage River Road (various locations)

Problem: Flood damage

Potential Solution: Investigate potential flood damage reduction measures for the area.

Cost: TBD

e. WASHINGTON COUNTY:

1) Location: Hancock (Little Tonoloway Creek confluence with Potomac River)

Problem: Backwater flooding due to dam created by C&O Canal box culvert during certain events

Potential Solution: Investigate solutions to backwater flooding

Cost: TBD

3. IMPLEMENTATION PLAN: The purpose of the following matrix is to identify the potential agencies for each of the actions identified in Paragraph 2. Departments and agencies who will need to work cooperatively to address a specific problem area are identified. It is expected that through their cooperative efforts, the appropriate leads and funding sources will be established. It is also expected that the local interests, whether contributing funding or not, will play an active role in any action undertaken within their area of concern.

Implementation of the long-term strategy will require the counties, in cooperation with appropriate State and federal agencies, to conduct flood management planning. Plans adopted must be consistent with and supported by local land use regulations. Flood management planning must also be coordinated with related water and land resource management programs. Effective planning requires meaningful public input throughout the process to assure support for the planning effort and the plan developed.

## LONG-TERM WORKGROUP IMPLEMENTATION PLAN MATRIX

ISSUE	NRCS	MEMA	MDE/ DNR	COE **	SHA	CSX	USGS/ NWS	FEMA	NPS	EPA
<b>ALL COUNTIES</b>										
1) Comprehensive Watershed Studies	X		X	X			X	X		X
2) C&O Canal Repairs and Investigations	X			X			X		X	X
3) Flood Forecasting Improvements		X	X	X			X	X		
4) CSX Structure Evaluation				X		X	X			
<b>ALLEGANY COUNTY</b>										
1) Braddock Run Emergency Streambank Studies	X		X	X						
2) Wills Creek H&H Studies			X	X			X	X		
3) WPA floodwall Stabilization	X	X	X	X				X		
4) Stormwater Management	X	X	X							
5) Braddock Run watershed Study	X									
<b>FREDERICK COUNTY</b>										
1) Brunswick Flooding Study	X		X	X			X			X
2) Point of Rocks Flooding Study	X		X	X			X			X
3) Emmitsburg/ Thurmont Flooding Study	X		X	X			X			X
<b>GARRETT COUNTY</b>										
1) Shallmar Flooding Study	X		X	X			X			
2) Friendsville Emergency Streambank Protection	X	X	X	X				X		
3) Shallmar Rd Stabilization	X	X	X	X				X		
4) Crellin Bridge Stabilization	X		X		X			X		
5) Savage River Road study	X		X	X						
<b>WASHINGTON COUNTY</b>										
1) Tonoloway Creek Flood Restrictions	X		X	X			X	X	X	

\* NRCS requires a formal request to initiate a study.

\*\* Corps of Engineers requires a formal request to initiate a study.

#### **4. ADDITIONAL ISSUES AND ACTIONS:**

##### **a. Federal:**

###### **Lead**

###### **Issue/Action**

##### **(1) FEMA**

###### **Flood Insurance Program:**

Improve procedures, payments, and education of the public.

##### **(2) NWS/USGS**

###### **Forecasting & Warning System:**

Maintain the river gauges. Provide access numbers to Emergency Management and Water Management Agencies. Determine ownership for the entire Flood Forecast and Warning System. Develop plan for additional gauges. Recommend funding mechanism and requirements for operation and maintenance of the system.

##### **(3) NPS**

###### **Debris removal in Frederick,**

###### **Washington and Allegany Counties:**

Review debris removal management plans for lands managed by C&O Canal National Historic Park to alleviate flooding on Park and adjacent lands.

##### **(4) ICPRB**

Develop measures for monitoring and correcting the negative aspects of "out-of-state water focusing on" upstream watershed use.

##### **(5) USACE, ICPRB, MDE**

###### **Jennings Randolph Lake:**

Review the hydraulic impacts of water releases on downstream communities.

##### **(6) NRCS**

NRCS has the authority under Public Law 83-566 to conduct Preliminary Planning Reports and detail reports



for watershed protection and flood prevention projects. The law also allows for the development of floodplain management studies. Technical and financial assistance is available under both programs. Application for federal assistance needs to be requested by a local or state sponsor.

Develop a program to relocate residences.

**(6) HUD/DHCD**

**b. State:**

**(1) Governor**

Amend/augment the State Catastrophic Event Fund to meet disaster needs.

Continue Task Force efforts

**(2) MDE**

Mine Reclamation Regulation. Review reforestation of reclaimed areas versus planting of grass.

**(3) MEMA**

Improve DSR process and reduce payment time.

**(4) MD DOT/SHA**

Review stormwater management facilities controlling I-68 runoff.

**(5) Elected Officials**

Develop tax adjustments/incentives for moving out of floodplains.

**(6) MDE/EPA**

Develop comprehensive wastewater treatment system for rural communities.

**(7) DHCD**

Extend Revitalization Area Designations for Allegany, Frederick, and Washington Counties from July 1997 to July 2000.



- (8) **MEMA/MDE** Relocate residences and communities out of floodplains.
- (9) **MDE** Flood warning systems, structural needs and flood studies.
- (10) **MD Office of Planning** Emphasize a stringent planning element for Sensitive Areas (streams and their buffers, 100-year floodplains, Habitats of Threatened and Endangered Species, and steep slopes) as a legal requirement for local and county comprehensive plans.
- (11) **MD Office of Planning** Provide technical assistance, maps, parcel and property data products to impacted jurisdictions for hazard mitigation planning.

c. **Municipal and Private:**

- 1) **CSX** Review options for relocating railbridges/lines along Route 36: Westernport to Frostburg
  - (2) **Watershed Associations** Sponsor stream clean-up days (Adopt-a-Stream).
  - (3) **Local Jurisdictions** Review and revise local zoning laws; provide tax adjustments to create watershed conservation parks (explore funding and technical assistance from NPS, NRCS, USACE, ME, DNR, HUD, USF&WS, EPA and OSM for multi-objective river corridor and watershed management, structure removal and community planning).
- Update Flood Hazard Mitigation Plans.

5. EXPENDITURES:

a. Federal Expenditures -

FY96

USACE

- . North Branch Potomac River Environmental Restoration, WV, MD and PA.  
Recon: \$575,000.

NRCS

- . Emergency Watershed Protection  
\$2,374,430

FEMA

- . Public Assistance \$1,275,000 (Allegany)
- . Individual and Business Assistance (Allegany)  
\$3,400,000

FY97

USACE

- . North Branch Potomac River Environmental Restoration, WV, MD and PA.  
FEASIBILITY STUDY: \$383,000.
- . Georges Creek Watershed Recon: \$80,000. \*
- . Shallmar Road, Section 14 Emergency Streambank Protection Project: \$484,000. \*
- . Friendsville PL84-99 \$322,000.

\* Potential funding.

NRCS

. Emergency Watershed Protection  
\$3,750,000

. Charlestown RAMP Slide  
\$82,000

FEMA

. (Public Assistance) \$1,305,800

. Individual and Business Assistance (Allegany)  
\$1,550,000

b. State of Maryland Expenditures -

1 July 1995 - 30 June 1996

DHCD (CDBG)

. \$815,000 (Allegany)

MDE

. \$150,000 Small Creeks and Estuaries Program

. \$75,000 Bureau of Mines

. \$100,000 NRCS cost share, January 1996

. \$1,200,000 Carroll Creek Flood Control  
City of Frederick

1 July 1996 - 11 December 1996

SHA

. \$2,700,000 (Allegany)

. \$130,000 (Frederick)

. \$100,000 (Garrett)

MDE

. \$100,000 FEMA cost share: Comprehensive Flood Management Grant Program January 1996 event.

. \$37,500 FEMA cost share: Comprehensive Flood Management Grant Program September 1996 event.

. \$1,600,000 Carroll Creek Flood Control City of Frederick.

c. County Expenditures

1 July 1995 - 30 June 1996

Allegany County

\$826,554 NRCS cost share

Frederick County (January 1996 clean-up cost)

\$0 NRCS cost share

Garrett County

\$146,046 NRCS cost share

Washington County

None Reported

**1 July 1996 - 11 December 1996**

**Allegany County**

**\$1,225,000 NRCS cost share**

**\$635,815 FEMA cost share**

**Frederick County**

**\$94,651 NRCS cost share**

**\$275,281 FEMA cost share**

**Garrett County**

**\$25,000 NRCS cost share**

**\$181,888 FEMA cost share**

**Washington County**

**\$0.00 NRCS cost share**

**\$212,816 FEMA cost share**

**6. CONCLUSIONS AND RECOMMENDATIONS:**

**a. Conclusions:**

**1) Allegany County, specifically the George's Creek and Wills Creek watersheds, received the most devastation from the three flood events from June 1995 through September 1996.**

**2) Twenty federal and state agencies have varying authorities by which to assist the counties during and after emergency situations, but their activities are not currently synchronized nor coordinated through one centralized, responsible organization.**

3) Due to concerns raised at the public hearings, MDE provided the Task Force with the following explanation of current strip mining regulations: Stormwater management structures required on surface coal mines reduce peak run-off of frequent storms to less than, typically, pre-mining peak run-off. Because of the magnitude of the 100-year storm event in George's Creek, and the small percentage of the watershed disturbed by active mining, any impacts on flood flow elevations from active mining operations are insignificant. Drainage control and stormwater management structures are not removed until each site is vegetatively stabilized and the run-off rates return to pre-mining rates.

4) To effectively minimize the impacts of flooding on the citizens in Western Maryland, ecosystem restoration and land management must be targeted for each watershed and coordinated through a comprehensive (multi-objective) planning process.

b. Recommendations:

1) That the Maryland Department of the Environment (MDE) be designated as the responsible agency for synchronizing all post-flood watershed restoration efforts in Maryland. These efforts include: (1) ensuring that all emergency response actions are taken with due consideration of the environment, (2) providing technical and permitting assistance regarding waterway construction, stormwater management, dam safety, wetlands, water supplies, and wastewater management as necessary, (3) assisting in the provision of funding support for water and wastewater facility repairs, (4) coordinating flood mitigation efforts, (5) supporting local governments in establishing and maintaining programs necessary to qualify them for participation in the National Flood Insurance Program, (6) managing the state floodplain management program, and (7) administering the Maryland Comprehensive Flood Management Grant Program.

2) That the Task Force, appointed by the Governor of Maryland, meet on a semi-annual basis to monitor the progress on identified issues of this report. This Task Force should coordinate its actions with the State Hazard Mitigation Policy Team. The first meeting will be scheduled for June or July, 1997.

3) That the lead State, federal and local agencies investigate the open issues and report progress at the Task Force meetings.

4) That the elected and appointed officials assist in appropriating funds to implement the required actions and to minimize the financial burden of the local cost share requirements.

5) That Maryland Department of the Environment, Maryland Office of Planning, National Park Service, the Interstate Commission on the Potomac River Basin, the Maryland Emergency Management Agency, and other agencies deemed appropriate conduct a public outreach program for western Maryland to educate citizens on the relationship between land use and flooding.

6) That watershed studies be targeted to address the flood protection and environmental restoration needs of the individual counties and that information be used to update existing county master plans. Plans must be consistent with local land-use regulations and coordinated with other related water and land resource management programs.

7) That authorities responsible for all existing State of Maryland programs for locally designated Conservation and Revitalization Areas give priority of effort, in order, to Allegany, Garrett, Washington and Frederick Counties. The Secretaries/Directors of appropriate Departments and Agencies should assume responsibility for this action.





## INITIAL FUNDING REQUIREMENTS

Current estimated funding requirements are provided for both short-term and long-term recommendations. The figures are the best available estimates as

### GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

#### SHORT-TERM

#### FINAL REPORT

1. Acquisition and demolition of 258 structures in the 100-year floodplain and 20 structures in the 500-year floodplain in Allegany, Frederick, Garrett, and Washington Counties (detailed at Section 4, Tab 2 of this report).

ESTIMATED COST: \$13,202,570

#### SECTION 6

2. Retrofit or elevate 28 homes in Cralin, Garrett County, in accordance with previous mitigation project proposal.

ESTIMATED COST: \$671,000

#### INITIAL FUNDING REQUIREMENTS

3. Floodproofing of the water treatment plant in Friendsville, Garrett County, in accordance with previous mitigation project proposal.

ESTIMATED COST: \$31,350

4. Floodproofing of waste water pumping station in Hancock, Washington County, in accordance with previous mitigation project proposal.

ESTIMATED COST: \$120,000

5. Relocation of Shaversburg water treatment plant intake.

ESTIMATED COST: \$400,000

TOTAL ESTIMATED COST FOR  
SHORT-TERM RECOMMENDATIONS: \$14,425,120

It is recommended that funding be provided by Federal (75%), State (12.5%), and county (12.5%) governments over the next three years. A limited amount of State (\$1.3 million) and Federal (\$1.1 million) funds are currently available which require a local cost share. It may be necessary for

# GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

## FINAL REPORT

### SECTION 6

#### INITIAL FUNDING REQUIREMENTS

## INITIAL FUNDING REQUIREMENTS

Current estimated funding requirements are provided for both short-term and long-term recommendations. The figures are the best available estimates at this time and do not reflect the entire cost of implementing all recommendations. Rather, they represent the total funding required for all recommendations which have estimated costs.

### SHORT-TERM

1. Acquisition and demolition of 288 structures in the 100-year floodplain and 20 structures in the 500-year floodplain in Allegany, Frederick, Garrett, and Washington Counties (detailed at Section 4, Tab 2 of this report).

ESTIMATED COST: \$13,202,870

2. Retrofit or elevate 26 homes in Crellin, Garrett County, in accordance with previous mitigation project proposal.

ESTIMATED COST: \$671,000

3. Floodproofing of the water treatment plant in Friendsville, Garrett County, in accordance with previous mitigation project proposal.

ESTIMATED COST: \$31,250

4. Floodproofing of waste water pumping station in Hancock, Washington County, in accordance with previous mitigation project proposal.

ESTIMATED COST: \$120,000

5. Relocation of Sharpsburg water treatment plant intake.

ESTIMATED COST: \$400,000

**TOTAL ESTIMATED COST FOR  
SHORT-TERM RECOMMENDATIONS: \$14,425,120**

It is recommended that funding be provided by federal (75%), State (12.5%), and county (12.5%) governments over the next three years. A limited amount of State (\$1.3 million) and federal (\$1.1 million) funds are currently available which require a local cost share. It may be necessary for

the State to assume responsibility for all or part of the local cost share for financially challenged local jurisdictions, to include the use of General Funds or bond flotation.

#### LONG-TERM

1. Repair of flood damage and removal of accumulated debris along the C&O Canal National Historic Park.

ESTIMATED COST: \$2,000,000 (\$500,000 per county)

2. Reconnaissance study of streambank erosion and stormwater detention of Braddock Run, Allegany County.

ESTIMATED COST: \$100,000

3. NRCS study of Braddock Run watershed.

ESTIMATED COST: \$30,000

4. Reconnaissance study of Potomac River at Brunswick, Frederick County.

ESTIMATED COST: \$100,000

5. Reconnaissance study of Potomac River at Point of Rocks, Frederick County.

ESTIMATED COST: \$100,000

6. Completion of on-going repairs to Shallmar Road, Garrett County.

ESTIMATED COST: \$784,000\*

TOTAL ESTIMATED COST FOR  
LONG-TERM RECOMMENDATIONS: \$3,114,000 (federal funds required)

\*This project will require a 35 percent share in the amount of \$274,000. Recommend that this cost share be provided by the local jurisdiction (50 percent) and the State (50 percent).

NOTE: The costs listed for reconnaissance studies do not include the costs of implementing construction projects which may be recommended by the studies. The Corps of Engineers and the NRCS require formal requests before initiating a study.

## CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations represent the consolidated findings of the short-term and long-term workgroups.

### GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

#### FINAL REPORT

1. Allegany County, specifically the George's Creek and Mills Creek watersheds, received the most damage from the three flood events from June 1985 through September 1985.

2. Twenty federal and state agencies have varying authority by which to assist the counties during and after emergency situations, but their activities are not currently synchronized nor coordinated through one centralized, responsible organization.

#### SECTION 7

3. Due to concerns raised at the public hearings, MDE provided the Task Force with the following explanation of current strip mining regulations:

**CONCLUSIONS AND RECOMMENDATIONS**

Because of the magnitude of the 100-year storm event in George's Creek, and the small percentage of the watershed disturbed by active mining, any impacts on flood flow elevations from active mining operations are insignificant. Draglines control and stormwater management structures are not removed until each site is vegetatively stabilized and the run-off rates return to pre-mining levels.

4. To effectively minimize the impacts of flooding on the citizens in western Maryland, ecosystem restoration and land management must be targeted for each watershed and coordinated through a comprehensive (multi-objective) planning process.

#### RECOMMENDATIONS (SHORT-TERM):

1. Purchase and remove 288 structures in the 100-year floodplain and 20 structures in the 500-year floodplain in accordance with willing sellers. Acquire properties to enable residents to voluntarily relocate to other areas out of the floodplain.

2. Identify and assist in funding floodproofing methods for individual home and business owners through a State grant or loan fund. Floodproofing should be cost-effective, not adversely impact others, be targeted toward

the State to assume responsibility for all or part of the local cost share in the event that the local jurisdiction is unable to provide the necessary funds to meet the State's requirements for flood damage reduction. The State will also be responsible for the design and construction of the project.

#### LONG TERM

### GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

ESTIMATED COST: \$2,000,000 (500,000 per county)

2. Reconnaissance study of streambank erosion and streamwater detention of Braddock Run, Allegany County.

ESTIMATED COST: \$100,000

3. NRCS study of Braddock Run watershed.

ESTIMATED COST: \$30,000

### CONCLUSIONS AND RECOMMENDATIONS

ESTIMATED COST: \$100,000

5. Reconnaissance study of Potomac River at Point of Rocks, Frederick County.

ESTIMATED COST: \$100,000

6. Completion of ongoing studies to Shalimar Road, Garrett County.

ESTIMATED COST: \$784,000\*

TOTAL ESTIMATED COST FOR

LONG-TERM RECOMMENDATIONS: \$3,114,000 (Federal funds required)

\*This project will require a 35 percent share in the amount of \$274,000. Recommendation that this cost share be provided by the local jurisdiction (50 percent) and the State (50 percent).

NOTE: The costs listed for reconnaissance studies do not include the costs of implementing construction projects which may be recommended by the studies. The Corps of Engineers and the NRCS require formal requests before initiating a study.

## CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations represent the consolidated findings of the short-term and long-term workgroups:

### CONCLUSIONS:

1. Allegany County, specifically the George's Creek and Wills Creek watersheds, received the most devastation from the three flood events from June 1995 through September 1996.
2. Twenty federal and state agencies have varying authorities by which to assist the counties during and after emergency situations, but their activities are not currently synchronized nor coordinated through one centralized, responsible organization.
3. Due to concerns raised at the public hearings, MDE provided the Task Force with the following explanation of current strip mining regulations: Stormwater management structures required on surface coal mines reduce peak run-off of frequent storms to less than, typically, pre-mining peak run-off. Because of the magnitude of the 100-year storm event in George's Creek, and the small percentage of the watershed disturbed by active mining, any impacts on flood flow elevations from active mining operations are insignificant. Drainage control and stormwater management structures are not removed until each site is vegetatively stabilized and the run-off rates return to pre-mining rates.
4. To effectively minimize the impacts of flooding on the citizens in western Maryland, ecosystem restoration and land management must be targeted for each watershed and coordinated through a comprehensive (multi-objective) planning process.

### RECOMMENDATIONS (SHORT-TERM):

1. Purchase and remove 288 structures in the 100-year floodplain and 20 structures in the 500-year floodplain in accordance with willing sellers. Acquire properties to enable residents to voluntarily relocate to other areas out of the floodplain.
2. Identify and assist in funding floodproofing methods for individual home and business owners through a State grant or loan fund. Floodproofing should be cost-effective, not adversely impact others, be targeted toward

protecting structures, and should not reduce available floodplain or effective flow area. Funds should be available throughout the State to encourage mitigation measures in all local jurisdictions.

3. Immediately restore streambeds and affected infrastructures to their condition prior to storm events. Immediately remove debris from prior storm events from affected waterways.

4. Where feasible, remove waterway blockages (e.g. old dikes, dams, trestles, etc.) to allow the free flow of flood waters.

5. Work with Federal officials and the insurance industry to streamline payment of flood insurance claims.

6. Provide comprehensive public information and education on river hydraulics and geomorphology, when and how to floodproof, functions and values of floodplains, and the National Flood Insurance Program.

7. Create legislation to amend/augment the State's Comprehensive Flood Grant Management Program (CFMGP) as follows:

- Increase the State share from 50 percent to 75 percent and reduce the local government minimum contribution from 50 percent to 25 percent. The Comprehensive Flood Grant Management Program should be utilized when federal assistance is unavailable, or when State matching funds are required for mitigation projects.

- Increase the CFMGP bond authorizations over the next two to three years to provide the necessary support to accomplish the recommendations of this Task Force in acquiring properties, conducting flood studies, and supporting necessary flood warning systems.

- Provide relocation costs and financial incentives as deemed appropriate to induce residents to relocate out of the floodplain.

8. Create legislation to amend/augment the State's Catastrophic Event Fund as follows:

- Expand availability of the fund for use by local jurisdictions.

- Utilize the resources of the fund to assist financially challenged communities with their 25 percent share of federal disaster assistance. Utilize the fund to pay 50 percent of the local



governments' cost share of federal disaster assistance when the cost of the disaster exceeds five dollars per capita for the jurisdiction in a current budget year.

- Reserve certain funds for disbursement following a disaster to jurisdictions where federal disaster assistance is unavailable, and the estimated cost of the disaster exceeds five dollars per capita for the jurisdiction in a current budget year. These funds would be provided on a 75 percent State cost share/25 percent local cost share based on federal disaster assistance criteria.

9. Implement currently proposed construction and elevation mitigation projects.

#### RECOMMENDATIONS (LONG-TERM):

1. That the Maryland Department of the Environment (MDE) be designated as the responsible agency for synchronizing all post-flood watershed restoration efforts in Maryland. These efforts include: (1) ensuring that all emergency response actions are taken with due consideration of the environment, (2) providing technical and permitting assistance regarding waterway construction, stormwater management, dam safety, wetlands, water supplies, and wastewater management as necessary, (3) assisting in the provision of funding support for water and wastewater facility repairs, (4) coordinating flood mitigation efforts, (5) supporting local governments in establishing and maintaining programs necessary to qualify them for participation in the National Flood Insurance Program, (6) managing the state floodplain management program, and (7) administering the Maryland Comprehensive Flood Management Grant Program.

2. That the Task Force, appointed by the Governor of Maryland, meet on a semi-annual basis to monitor the progress on identified issues of this report. This Task Force should coordinate its actions with the State Hazard Mitigation Policy Team. The first meeting will be scheduled for June or July, 1997.

3. That the lead Federal, State, and local agencies investigate the open issues and report progress at the Task Force meetings.

4. That the elected and appointed officials assist in appropriating funds to implement the required actions and to minimize the financial burden of the local cost share requirements.

5. That Maryland Department of the Environment, Maryland Office of Planning, National Park Service, the Interstate Commission on the Potomac River Basin, the Maryland Emergency Management Agency, and other agencies deemed appropriate conduct a public outreach program for western Maryland to educate citizens on the relationship between land use and flooding.

6. That watershed studies be targeted to address the flood protection and environmental restoration needs of the individual counties and that information be used to update existing county master plans.

7. That authorities responsible for all existing State of Maryland programs for locally designated Conservation and Revitalization Areas give priority of effort, in order, to Allegany, Garrett, Washington and Frederick Counties. The Secretaries/Directors of appropriate Departments and Agencies should assume responsibility for this action.

## **GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND**

### **FINAL REPORT**

#### **ANNEX A**

#### **AUTHORITIES AND MAXIMUM ALLOWANCES**

Point Of Contact: William P. [unclear]  
MDE  
Tower State Office Building  
Annapolis, Maryland 21401  
(410) 631-4154

-or-  
Evelyn Blaser  
MEMA  
2 Sudbrook Lane East  
Pikesville, Maryland 21208  
(410) 486-4422

Problems / Solutions: These funds are only available for locally declared disasters. However, MEMA is initiating a process to provide major water block grants to aid in mitigation efforts prior to flooding.

6. That Maryland Department of the Environment, Maryland Office of Planning, National Park Service, the Interstate Commission on the Potomac River Basin, the Maryland Emergency Management Agency, and other agencies deemed appropriate conduct a public outreach program for

western Maryland to educate citizens on the relationship between use and flood risk.

7. That the Secretary of the Department of the Environment, Maryland Office of Planning, National Park Service, the Interstate Commission on the Potomac River Basin, the Maryland Emergency Management Agency, and other agencies deemed appropriate conduct a public outreach program for

western Maryland to educate citizens on the relationship between use and flood risk.

8. That the Secretary of the Department of the Environment, Maryland Office of Planning, National Park Service, the Interstate Commission on the Potomac River Basin, the Maryland Emergency Management Agency, and other agencies deemed appropriate conduct a public outreach program for

western Maryland to educate citizens on the relationship between use and flood risk.

9. That the Secretary of the Department of the Environment, Maryland Office of Planning, National Park Service, the Interstate Commission on the Potomac River Basin, the Maryland Emergency Management Agency, and other agencies deemed appropriate conduct a public outreach program for

western Maryland to educate citizens on the relationship between use and flood risk.

## ANNEX A

### AUTHORITIES AND MAXIMUM ALLOWANCES

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## Maryland Department of the Environment (MDE) and Maryland Emergency Management Agency (MEMA)\*

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**Program:** Hazard Mitigation Grant Program (floods)

**Authorities:** 42 U.S.C. 5170c, 44 CFR

**Funding:** FEMA provides 15 percent of the combined individual and public assistance associated with federally declared disasters to the states for mitigation efforts. Ex. Winter Storm 1996- \$860,000.00 and Hurricane Fran- \$250,000.00

**Key Responsibilities:** The HMGP provides up to 75 percent of the cost of hazard mitigation projects sponsored by State and local governments. This program provides grant funds to support the purchase, elevation, and building relocation of properties that lie within the 100-year floodplain. Grants made under this program can only be made to jurisdictions that qualify under Federal requirements for disaster declaration and they are participating communities in the National Flood Insurance Program. It is a FEMA program but is jointly administered by MEMA and MDE. \*MEMA is the Lead Agency

**Point Of Contact:** William Parrish  
MDE  
Tawes State Office Building  
Annapolis, Maryland 21401  
(410) 631-4164

-or-

Evalyn Fisher  
MEMA  
2 Sudbrook Lane East  
Pikesville, Maryland 21208  
(410) 486-4422

**Problems / Solutions:** These funds are only available for federally declared disasters. However, FEMA is initiating a process to provide states with block grants to use in mitigation efforts prior to flooding.

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## Maryland Department of the Environment (MDE), Technical and Regulatory Services Administration

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**Program:** National Flood Insurance Program - Community Assistance Program

**Authorities:** 42 U.S.C. 4001 et. seq., 44 CFR

**Funding:** \$67,000.00 federal and \$22,000.00 state

**Key Responsibilities:** This federally funded and state-supported program provides oversight and technical assistance to local jurisdictions in developing and maintaining programs that qualify local governments and individual property owners for participation in the National Flood Insurance Program. Qualifying requirements include local zoning and building construction ordinances for areas within the designated 100-year floodplain.

**Point Of Contact:** William Parrish  
NFIP State Coordinator  
Tawes State Office Building  
Annapolis, Maryland 21401  
(410) 631-4164

**Problems / Solutions:** Level federal funding over the past several years, in consideration of inflationary pressures, is gradually diminishing the State's ability to serve the local jurisdictions.

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## Maryland Department of the Environment (MDE), Technical and Regulatory Services Administration

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**Program:** Comprehensive Flood Management Program (CFMGP), a.k.a. "Flood Hazard Mitigation Act of 1976"

**Authorities:** Environmental Article 5-801 5-809, Code of Maryland Regulations: Title 26.17.06

**Funding:** Bond authorizations are requested as needed. A total of \$28.9 million since 1981 has been authorized. The currently available balance is approximately \$1.3 million. Cost-share is 50/50 with local jurisdictions

**Key Responsibilities:** This legislation establishes or promotes assistance to guide development to minimize impacts of flooding; State guidelines for, and technical assistance to, local governments; comprehensive watershed management; facilitation of flood control projects; encouragement of local government management of flood-prone areas; environmental quality of state watersheds; and a grant program to assist local jurisdictions in capital projects.

**Point Of Contact:** William Parrish  
2500 Broening Highway  
Baltimore, Maryland 21224  
(410) 631-4164

**Problems / Solutions:** Mitigation grants require a local match equal to the State contribution (e.g., 50/50). When used in conjunction with FEMA's Hazard Mitigation Grant Program (75 percent federal), the state and local shares are 12.5 percent each. In the absence of a federally declared disaster, and hence FEMA support, the state and local shares are 50 percent each. Local governments often find their 50 percent share to be unavailable. One solution would be to increase the State share from 50 percent to 75 percent, for at least the non-federally declared disasters.

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## Maryland Department of the Environment (MDE), Water Management Administration

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**Program:** Maryland Supplemental Assistance Program

**Authorities:** Annotated Code of Maryland; Environmental Article 9-345-9351;  
COMAR 26.03.08

**Funding:** \$1 million- \$2 million annually for projects statewide

**Key Responsibilities:** This program provides grant assistance to communities which cannot afford the full cost of needed wastewater collection and treatment facilities, and where MDE has a high priority to correct an existing wastewater problem. Grants can equal up to 100 percent of costs, but are usually less than one-half of the funding of a given project.

**Point Of Contact:** Virginia F. Kearney  
2500 Broening Highway  
Baltimore, Maryland 21224  
(410) 631-3574

**Problems / Solutions:**



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## Maryland Department of the Environment (MDE), Water Management Administration

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**Program:** Urban Stormwater Pollution Control

**Authorities:** Annotated Code of Maryland; Environmental Article 9-345-9-351

**Funding:** \$1 million annually for projects statewide

**Key Responsibilities:** 75 percent state and 25 percent local government cost-share capital program; the program funds projects to control runoff from older developed areas where opportunities exist to enhance water quality through the provision of modern stormwater management facilities.

**Point Of Contact:** Virginia F. Kearney  
2500 Broening Highway  
Baltimore, Maryland 21224  
(410) 631-3574

**Problems / Solutions:**





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## **Maryland Department of the Environment (MDE), Water Management Administration**

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**Program:** Maryland Water Quality State Revolving Loan Fund

**Authorities:** Annotated Code of Maryland; Environmental Article 9-1601-9-1622

**Funding:** current lending capacity \$140 million

**Key Responsibilities:** This program is funded by a mix of Federal and state funds to provide low interest loans to local governments for a wide variety of water quality-related capital improvements. In addition to funding wastewater treatment facility projects, the fund may be used for the planning, design, and construction of non-point source projects to improve water quality. Projects such as stream restoration, stormwater management facilities, and flood control projects where a water quality benefit may be gained are eligible for this type of funding.

**Point Of Contact:** Virginia F. Kearney  
2500 Broening Highway  
Baltimore, Maryland 21224  
(410) 631-3574

-or-

Pat Crosby, Director Office of Budget  
(410) 631-4155

**Problems / Solutions:**

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## Maryland Department of the Environment (MDE), Water Management Administration

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**Program:** Maryland Water Supply Financial Assistance Program

**Authorities:** Annotated Code of Maryland; Environmental Article 9-420-9-426;  
COMAR 26.03.09

**Funding:** \$1 million to \$2 million annually for projects statewide

**Key Responsibilities:** This is a grant/loan program administered by MDE that provides financial assistance for water supply system repairs and upgrades to ensure safe and adequate water supplies. While not designed to respond to immediate disasters such as flooding, the program may be able to assist, through an emergency action to the Board of Public Works, where existing water supplies are adversely impacted by a weather event.

**Point Of Contact:** Virginia F. Kearney  
2500 Broening Highway  
Baltimore, Maryland 21224  
(410) 631-3574

**Problems / Solutions:**

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## Maryland Department of the Environment (MDE), Water Management Administration

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**Program:** Maryland Water Quality State Revolving Loan Fund

**Authorities:** Annotated Code of Maryland; Environmental Article 9-1601-9-1622

**Funding:** current lending capacity \$140 million

**Key Responsibilities:** This program is funded by a mix of Federal and state funds to provide low interest loans to local governments for a wide variety of water quality-related capital improvements. In addition to funding wastewater treatment facility projects, the fund may be used for the planning, design, and construction of non-point source projects to improve water quality. Projects such as stream restoration, stormwater management facilities, and flood control projects where a water quality benefit may be gained are eligible for this type of funding.

**Point Of Contact:** Virginia F. Kearney  
2500 Broening Highway  
Baltimore, Maryland 21224  
(410) 631-3574

-or-

Pat Crosby, Director Office of Budget  
(410) 631-4155

**Problems / Solutions:**

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## Maryland Department of the Environment (MDE), Water Management Administration

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**Program:** Maryland Water Supply Financial Assistance Program

**Authorities:** Annotated Code of Maryland; Environmental Article 9-420-9-426;  
COMAR 26.03.09

**Funding:** \$1 million to \$2 million annually for projects statewide

**Key Responsibilities:** This is a grant/loan program administered by MDE that provides financial assistance for water supply system repairs and upgrades to ensure safe and adequate water supplies. While not designed to respond to immediate disasters such as flooding, the program may be able to assist, through an emergency action to the Board of Public Works, where existing water supplies are adversely impacted by a weather event.

**Point Of Contact:** Virginia F. Kearney  
2500 Broening Highway  
Baltimore, Maryland 21224  
(410) 631-3574

**Problems / Solutions:**

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## **Maryland Department of the Environment (MDE), Water Management Administration**

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**Program:** Maryland Water Quality State Revolving Loan Fund

**Authorities:** Annotated Code of Maryland; Environmental Article 9-1601-9-1622

**Funding:** current lending capacity \$140 million

**Key Responsibilities:** This program is funded by a mix of Federal and state funds to provide low interest loans to local governments for a wide variety of water quality-related capital improvements. In addition to funding wastewater treatment facility projects, the fund may be used for the planning, design, and construction of non-point source projects to improve water quality. Projects such as stream restoration, stormwater management facilities, and flood control projects where a water quality benefit may be gained are eligible for this type of funding.

**Point Of Contact:** Virginia F. Kearney  
2500 Broening Highway  
Baltimore, Maryland 21224  
(410) 631-3574

-or-

Pat Crosby, Director Office of Budget  
(410) 631-4155

**Problems / Solutions:**



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## Maryland Department of the Environment (MDE), Water Management Administration

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**Program:** Maryland Water Supply Financial Assistance Program

**Authorities:** Annotated Code of Maryland; Environmental Article 9-420-9-426;  
COMAR 26.03.09

**Funding:** \$1 million to \$2 million annually for projects statewide

**Key Responsibilities:** This is a grant/loan program administered by MDE that provides financial assistance for water supply system repairs and upgrades to ensure safe and adequate water supplies. While not designed to respond to immediate disasters such as flooding, the program may be able to assist, through an emergency action to the Board of Public Works, where existing water supplies are adversely impacted by a weather event.

**Point Of Contact:** Virginia F. Kearney  
2500 Broening Highway  
Baltimore, Maryland 21224  
(410) 631-3574

**Problems / Solutions:**

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**Maryland Department of the Environment (MDE), Water Management  
Administration**

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**Program:** Maryland Drinking Water State Revolving Loan Fund (DWSRF)

**Authorities:** Safe Drinking Water Act, 1996 Amendments, Annotated Code of Maryland, Environmental Article 9-1601-9-1622

**Funding:** Maryland estimates 1997 FY allocation of \$17,500,000.00

**Key Responsibilities:** Projects needed to meet primary drinking water standards; imminent health hazards are to be given highest priority. Systems lent these funds must have or agree to put in place adequate mechanisms to ensure the financial, managerial, and technical capability to operate and maintain the system. Water system upgrades needed to address flood-related problems may be eligible for funding. Estimated date of program initiation is July 1997.

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Baltimore, Maryland 21224  
(410) 631-3574

-or-

Pat Crosby, Director Office of Budget  
(410) 631-4155

**Problems / Solutions:**

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## Maryland Department of the Environment (MDE), Water Management Administration

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**Program:** Small Creeks and Estuaries Water Quality Restoration

**Authorities:** Annotated Code of Maryland; Environmental Article 9-345-9-357

**Funding:** \$1 million annually for projects statewide

**Key Responsibilities:** 50 percent State and 50 percent local government cost-share capital program for projects targeted to improving and/or restoring stream systems that have been damaged by activities such as urbanization, channelization, poor agriculture and flooding.

**Point Of Contact:** Virginia F. Kearney  
2500 Broening Highway  
Baltimore, Maryland 21224  
(410) 631-3574

**Problems / Solutions:**

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## Maryland Office of Planning

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**Program:** Planning Data Services

**Authorities:**

**Funding:**

**Key Responsibilities:** Provides paper maps, digital data, hard copy of digital data and custom products and services for the following subject areas: 1990 census; Cogressional and Legislative redistricting; land use/land cover; streams and watersheds; parcel data spatially linked to computerized parcel maps (MD Property View); digital street maps; LANDSAT images; county political and land/water boundry files; custom products and services- demographics/socio-economic/business applications and local planning assistance.

**Point Of Contact:** Mr. Michel A. Lettre', Assistant Director  
Maryland Office of Planning  
Planning Data Services  
301 West Preston Street  
Baltimore, Maryland 21201-2365  
(410) 767-4450

**Problems / Solutions:**

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## Maryland Office of Planning

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**Program:** Geographic Information System

**Authorities:**

**Funding:** State General Fund

**Key Responsibilities:** Provide technical assistance to State and local governments in the use of GIS, including socio-economic, natural resources and land use data. Maintain current electronic based maps and related features-street name, address and parcel centroid data.

**Point Of Contact:** Mr. Thomas Nasuta, Manager  
Maryland Office of Planning  
Planning Data  
Geographic Information System  
Room 1101  
Baltimore, Maryland 21201  
(410) 225-4450

**Problems / Solutions:** Mr. Ronald M. Kruttschnitt, Director

Maryland Office of Planning and Governor's Assistant to the  
Appalachian  
Regional Commission  
State Office Building  
301 West Francis Street  
Baltimore, Maryland 21201  
(410) 225-4450

**Problems / Solutions:** These Appalachian Regional Commission program funds usually represent 50 percent of the Total Project Cost. Under the ARC Consolidated Technical Assistance Program, which is administered by the Maryland Office of Planning, the applicant is required to also match 50 percent of the Total Project Cost. This can often be a combination of state and local cash and in-kind services.

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## Maryland Office of Planning

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**Program:** Comprehensive Planning

**Authorities:**

**Funding:**

**Key Responsibilities:** Land use planning applications- custom products and services produced through partnership activities. Modeling based on the following subject areas: land use/land cover; streams and watersheds; county zoning, sewer service and comprehensive plans; population and household projections; current or hypothetical development and environmental regulations; nonpoint pollution sources and management practices.

**Point Of Contact:** Ms. Mary Abrams, Chief Comprehensive Planning  
Maryland Office of Planning  
Comprehensive Planning  
301 West Preston Street- 11th Floor  
Baltimore, Maryland 21201-2365

**Problems / Solutions:**

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## Maryland Office of Planning, Appalachian Regional Commission (ARC)

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**Program:** Appalachian State Research, Technical Assistance, and Demonstration Projects (State Research)

**Authorities:** Appalachian Regional Development Act of 1965, Section 302, Public law 89-4 as amended; 40 App. U.S.C. 302.

**Funding:** The CTA Program is an element of the annual Maryland Appalachian Regional Commission Area Development Allocation

**Key Responsibilities:** The Consolidated Technical Assistance (CTA) Program is providing critical financial assistance to assure local government compliance with the Economic Growth, Resource Protection and Planning Act of 1992. The ARC/CTA Program has, since 1991, funded over sixty planning and development initiatives throughout the region. These have been utilized specifically by the state and local governments to address the sensitive area, growth management, economic growth, and comprehensive planning mandates of the Act. This is best characterized by the Comprehensive Plan and land use regulation updating process underway in all three Western Maryland counties. This program has also been utilized to address Western Maryland's economic growth sectors and investment strategies.

**Point Of Contact:** Mr. Ronald M. Kreitner, Director  
Maryland Office of Planning and Governor's Alternate to the  
Appalachian  
Regional Commission  
State Office Building  
301 West Preston Street  
Baltimore, Maryland 21201  
(410) 767-4510

**Problems / Solutions:** These Appalachian Regional Commission program funds usually represent 50 percent of the Total Project Cost. Under the ARC Consolidated Technical Assistance Program, which is administered by the Maryland Office of Planning, the applicant is required to also match 50 percent of the Total Project Cost. This can often be a combination of state and local cash and in-kind services.

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## Federal Emergency Management Agency (FEMA)

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**Program:** Hazard Mitigation Grant Program

**Authorities:** Section 404, Robert T. Stafford Disaster Relief and Emergency Assistance Act. 44 CFR, Part 206

**Funding:** Cost-share is 75/25

**Key Responsibilities:** The objective of the Program is to assist in relieving or eliminating imminent hazards to life and property from floods. The maximum authority is 15 percent of combined amounts of total public and individual damages in jurisdictions declared Federal disaster areas.

**Point Of Contact:** David Thomas  
FEMA, Region III  
Liberty Square Building, Second Floor  
105 South Seventh Street  
Philadelphia, Pennsylvania 19106-3316  
(215) 931-5512

**Problems / Solutions:**



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## Federal Emergency Management Agency (FEMA)

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**Program:** National Flood Insurance Program

**Authorities:** The National Flood Insurance Act of 1968; Section 202, PL 93-234

**Funding:** Varies annually depending on Federal appropriation.

**Key Responsibilities:** The program provides oversight and technical assistance to local jurisdictions to develop and maintain programs that qualify local governments and citizens for participation in the National Flood Insurance Program. Requirements include local zoning and building construction ordinances for areas within the designated 100-year floodplain. Has most recently been used to fund half of local jurisdictions' 25 percent match in acquisitions projects. Program is administered by the Maryland Department of the Environment.

**Point Of Contact:** David Thomas  
FEMA, Region III  
Liberty Square Building, Second Floor  
105 South Seventh Street  
Philadelphia, Pennsylvania 19106-3316  
(215) 931-5512

**Problems / Solutions:**

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## Federal Emergency Management Agency (FEMA)

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**Program:** Purchase of Floodplain Property

**Authorities:** Section 1362, The National Flood Insurance Act of 1968

**Funding:**

**Key Responsibilities:**

**Point Of Contact:** David Thomas  
FEMA, Region III  
Liberty Square Building, Second Floor  
105 South Seventh Street  
Philadelphia, Pennsylvania 19106-3316  
(215) 931-5512

**Problems / Solutions:**

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## Federal Emergency Management Agency (FEMA)

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**Program:** Public Assistance (PA) Program

**Authorities:**

**Funding:** Cost share is 75/25. Available funds are based on case-by-case Damage Survey Reports. Only available following a Federal Disaster Declaration

**Key Responsibilities:** The program provides funding to jurisdictions to assist with infrastructure repair and other measures needed following a disaster.

**Point Of Contact:** David Thomas  
· FEMA, Region III  
· Liberty Square Building, Second Floor  
105 South Seventh Street  
Philadelphia, Pennsylvania 19106-3316  
(215) 931-5512

**Problems / Solutions:**

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## Federal Emergency Management Agency (FEMA)

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**Program:** Individual Assistance (IA) Program

**Authorities:**

**Funding:** Cost share is 75/25; State of Maryland contributes 25 percent match to IA reimbursements. Available funds are based on case-by-case assessments

**Key Responsibilities:** Provides loans and/or grants to individuals to assist with home repairs and other expenses associated with recovering from a disaster. The program is administered by the Department of Human Resources. Bulk of the assistance consists of Small Business Administration disaster loans. Funds are only available following a Federal Disaster Declaration. An additional amount, equaling 20 percent of total damages, may be made available for individual mitigation measures.

**Point Of Contact:** David Thomas  
FEMA, Region III  
Liberty Square Building, Second Floor  
105 South Seventh Street  
Philadelphia, Pennsylvania 19106-3316  
(215) 931-5512

**Problems / Solutions:**

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## Federal Highway Administration (FHA)

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**Program:** Title 23 Emergency Relief

**Authorities:**

**Funding:** Varies annually based upon national appropriation. Cost-share is 90/10

**Key Responsibilities:** Used to reimburse state highway agencies for damages caused by disaster situations. Funds can be used for acquisition of homes and other non-highway mitigation measures only if tied to road improvements.

**Point Of Contact:** The Rotunda, Suite 220  
711 West 40th Street  
Baltimore, MD 21211  
(410) 962-4440

**Problems / Solutions:**

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## U.S. Army Corps of Engineers (USACE)

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**Program:** Flood Emergency Operations and Disaster Assistance

**Authorities:** Flood Control Act of 1962; PL 84-99, PL 99-84, PL 93-252, PL 95-51

**Funding:** Dependent upon rehabilitation deemed necessary.

**Key Responsibilities:** Provides flood fighting and rescue operations; post-flood response; emergency repair and restoration of flood-damaged or destroyed flood-control works such as levees; emergency protection of federally authorized hurricane and shore protection works being threatened; the repair or restoration of Federal hurricane or shore protection structures damaged or destroyed by wind, wave, or water action of other than an ordinary nature; emergency supplies of clean water to any locality confronted with a source of contaminated water causing or likely to cause a substantial threat to the public health and welfare of the inhabitants of the locality; and emergency water supplies for human and livestock use in areas determined to be drought distressed. Provision of advance flood damage-reduction measures by the USACE is supplemental to individual and local community effort, rather than a replacement for them.

**Point Of Contact:** Milton Cornish  
U.S. Army Corps of Engineers, Baltimore District  
CENAB-PL-E  
P.O. Box 1715  
Baltimore, Maryland 21201  
(410) 962-4223

**Problems / Solutions:** Projects must meet eligibility criteria. Funding is limited and available only as part of a disaster response.

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## U.S. Army Corps of Engineers (USACE)

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**Program:** Flood Plain Management Services Program

**Authorities:** Section 206, Flood Control Act of 1960

**Funding:** 100 percent Federal

**Key Responsibilities:** Furnish floodplain information and technical assistance to states, counties, and cities for prudent use of land subject to flooding from streams, lakes, and oceans. Developing and interpreting flood and floodplain data such as flood hazard mapping; providing a broad assessment of the impact of structural and nonstructural flood damage-reduction measures; providing technical assistance on floodproofing systems and techniques; and assessing the possible impacts of land-use changes on the physical, socio-economic, and environmental conditions of the floodplain.

**Point Of Contact:** Robyn Colosimo  
Jack Dinne  
U.S. Army Corps of Engineers, Baltimore District  
CENAB-PL-E  
P.O. Box 1715  
Baltimore, Maryland 21201  
(410) 962-4995

**Problems / Solutions:** Limited funds available for nationwide program.

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## U.S. Army Corps of Engineers (USACE)

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**Program:** Planning Assistance to States

**Authorities:** Section 22, Water Resources Development Act of 1974; PL 93-251

**Funding:** Up to \$300,000 Federal funding/state, total for project(s) is \$600,000/state. Cost Share 50/50 with local sponsor

**Key Responsibilities:** Provides technical assistance to states, local governments, and other non-Federal entities in the preparation of comprehensive plans for the development, utilization, and conservation of water and related land resources.. Assistance is limited to planning level studies. Recent studies include flood damage reduction, water supply, water conservation, water quality, hydropower, erosion, navigation, and methodologies to evaluate wetlands or other resources.

**Point Of Contact:** Robyn Colosimo  
Jack Dinne  
U.S. Army Corps of Engineers, Baltimore District  
CENAB-PL-E  
P.O. Box 1715  
Baltimore, Maryland 21201  
(410) 962-4995

**Problems / Solutions:** Limited funds available for nationwide program.



## U.S. Army Corps of Engineers (USACE)

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### U.S. Army Corps of Engineers (USACE)

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**Program:** Project Modifications to Improve Environment

**Authorities:** Section 1135, Water Resources Development Act of 1986; PL 99-662

**Funding:**

**Key Responsibilities:** Provides modifications of the operation of completed USACE projects for the purpose of improving environmental quality. The program can be used to protect, restore, or create wetlands, provided the work involves modification of a water resources project constructed by the USACE. Types of projects that could be considered include installation of gaged culverts in USACE levees; opening oxbows cut off by USACE levee or navigation features; or realignment of a levee to allow areas between the levee and the channel to revert to historic floodplain habitat.

**Point Of Contact:** Dave Ladd

U.S. Army Corps of Engineers, Baltimore District  
CENAB-PL-E  
P.O. Box 1715  
Baltimore, Maryland 21201  
(410) 962-4900

**Problems / Solutions:** Availability of Funds

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## U.S. Army Corps of Engineers (USACE)

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**Program:** General Investigations

**Authorities:** Provided by Congress for specific actions.

**Funding:** Dependent upon congressional appropriation.

**Key Responsibilities:** Flood control, navigation, and ecosystem restoration.

**Point Of Contact:** David Ladd

U.S. Army Corps of Engineers, Baltimore District

CENAB-PL-E

P.O. Box 1715

Baltimore, Maryland 21201

(410) 962-4900

**Problems / Solutions:** Studies are authorized as part of the Water Resources Development Acts (WRDA) which normally occur on a two year cycle; the last WRDA was recently passed. 50/50 cost share of Feasibility Study.

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## U.S. Army Corps of Engineers (USACE)

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### **Program:** Continuing Authorities Program

**Authorities:** Section 14, Flood Control Act of 1946 - Emergency streambank and shoreline erosion protection for public facilities and services. ; Section 208, Flood Control Act of 1954 -Snagging and clearing for flood control ; Section 205, Flood Control Act of 1948 - Flood control ; Section 103, River and Harbor Act of 1962 - Hurricane and storm damage reduction ; Section 107, River and Harbor Act of 1960 - Navigation ; Section 111, River and Harbor Act of 1968 - Mitigation of shoreline erosion damage caused by Federal navigation projects; Section 1135, Water Resources Development Act of 1986, as amended - Project modifications for the improvement of the environment. ; Section 204, Water Resources Development Act of 1992, as amended - Implementing ecosystem restoration projects in connection with dredging.

**Funding:** Cost sharing requirements vary among the authorities being implemented. Under the CAP, the Corps is authorized to construct small projects within specific federal funding limits, which range from \$500,000 to \$5 million.

**Key Responsibilities:** Authority is provided for study, adoption and construction of small projects for navigation, flood control, beach erosion control and shore protection. The eight delegated authorities are administered by the Corps of Engineers together under the Continuing Authorities Program (CAP). CAP establishes a process by which the Corps can respond to a variety of water resource problems without the need to obtain specific congressional authorization for each project.

**Point Of Contact:** Stacey Brown  
U.S. Army Corps of Engineers, Baltimore District  
CENAB-PL  
P.O. Box 1715  
Baltimore, Maryland 21201  
(410) 962-3639

**Problems / Solutions:** Funding for Program is provided by Congress on an annual basis and is distributed among 36 Corps Districts, the availability of funds for initiation of new studies varies annually.

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## U.S.D A., Farm Service Agency (FSA)

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**Program:** Emergency Conservation Program

**Authorities:** The Agricultural Credit Act of 1978

**Funding:**

**Key Responsibilities:** Shares with farmers and ranchers the cost of rehabilitating farmland damaged by wind erosion, floods, hurricanes, or other natural disasters, and for carrying out emergency water conservation measures during periods of severe drought.

**Point Of Contact:** Mr. James Voss  
State Executive Director  
Farm Services Agency  
8335 East Guilford Road  
Columbia, Maryland 21042  
(410) 381-4550/4551

**Problems / Solutions:**

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## U.S.D.A., Farm Service Agency (FSA)

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**Program:** Loans

**Authorities:**

**Funding:**

**Key Responsibilities:** Provides below market rate ownership and operating loans to farmers through the FmHA to family farmers who cannot obtain private credit to finance operations or make farm improvements.

**Point Of Contact:** Mr. James Voss  
State Executive Director  
Farm Services Agency  
8335 East Guilford Road  
Columbia, Maryland 21042  
(410) 381-4550/4551

**Problems / Solutions:**

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## U.S.D.A., Farm Service Agency (FSA)

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**Program:** Debt Cancellation Conservation Easements

**Authorities:**

**Funding:**

**Key Responsibilities:** Forgive debt in exchange for conservation easements on environmentally sensitive portions of a borrower's property. A conservation easement may be obtained for a period of not less than 50 years.

**Point Of Contact:** Mr. James Voss  
State Executive Director  
Farm Services Agency  
8335 East Guilford Road  
Columbia, Maryland 21042  
(410) 381-4550/4551

**Problems / Solutions:**

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## U.S.D.A., Farm Service Agency (FSA)

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**Program:** Disaster Payments

**Authorities:** The Agriculture Consumer Protection Act of 1973

**Funding:**

**Key Responsibilities:** Compensates farmers for unusually low yields due to natural disasters, adverse weather, and other conditions beyond a producer's control. The program covers wheat, barley, corn, sorghum, rice and cotton for counties in which Federal Crop Insurance was not available.

**Point Of Contact:** Mr. James Voss  
State Executive Director  
Farm Services Agency  
8335 East Guilford Road  
Columbia, Maryland 21042  
(410) 381-4550/4551

**Problems / Solutions:**

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## **U.S.D.A., Natural Resource Conservation Service (NRCS)**

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**Program:** Forestry Incentive Program

**Authorities:** The Cooperative Forestry Assistance Act of 1978

**Funding:**

**Key Responsibilities:** Encourages landowners to plant trees on suitable open lands or cut over areas and to perform timber stand improvement work for production of timber and other related forest resources. Cost-share agreements between the landowner and the Secretary of Agriculture are based on forest management plans developed by the landowner in cooperation with and approved by the State forestry agency. Cost-sharing assistance cannot exceed 65 percent of the cost of work under approved plans.

**Point Of Contact:** Dr. Jeri Berc  
USDA, NRCS  
339 Busch's Frontage Road  
Annapolis, Maryland 21401-5534  
(410) 757-0861 Ext,315

**Problems / Solutions:**



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## U.S.D.A., Natural Resource Conservation Service (NRCS)

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**Program:** Rural Abandoned Mine Program (RAMP)

**Authorities:**

**Funding:** FFY95 \$600,000.00

**Key Responsibilities:** RAMP is a Federal cost-sharing program to reclaim abandoned coal-mined land mined prior to 3 August 1977. Highest priority is given to areas posing extreme danger to public health, safety, property, and general welfare.

**Point Of Contact:** Dr. Jeri Berc  
USDA, NRCS  
339 Busch's Frontage Road  
Annapolis, MD 21401-5534  
(410) 757-0861 Ext. 315

**Problems / Solutions:**

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## **U.S.D.A., Natural Resource Conservation Service (NRCS)**

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**Program:** Emergency Watershed Protection Program

**Authorities:** Section 216, PL 81-516 and Section 404, Title IV, PL 95-331

**Funding:** \$5 million per county based on availability of funds

**Key Responsibilities:** Provides the Natural Resource Conservation Service with authorization for disaster relief funding in repairing damages to waterways and watersheds. Work includes debris removal and erosion control for waterways, levee repair, and relocations. Cost-share is 75/25. Funds are to be obligated within 40 days for exigency and 220 for non-exigency after receipt. Public and private landowners, land managers and others are eligible. Sponsorship must be a legal subdivision of a state government or a state itself.

**Point Of Contact:** Dr. Jeri Berc  
339 Busch's Frontage Road Suite 301  
Annapolis, Maryland 21401-5534  
(410) 757-0861

**Problems / Solutions:**

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## U.S.D.A., Natural Resource Conservation Service (NRCS)

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**Program:** Watershed Protection and Flood Prevention Program

**Authorities:** Public Law 83-566, Stat.666

**Funding:**

**Key Responsibilities:** The program provides the planning and implementation of structural and non-structural measures to solve problems associated with flooding, water management, recreation, water quality management, groundwater recharge, watershed protection, water supply and fish and wildlife development.

**Point Of Contact:** Dr. Jeri Berc  
USDA, NRCS  
339 Busch's Frontage Road  
Annapolis, MD 21401-5534  
(410) 757-0861 Ext, 315

**Problems / Solutions:**

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## U.S.D.A., Natural Resource Conservation Service (NRCS)

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**Program:** Cooperative River Basin Program

**Authorities:** Section 6, PL 83-566

**Funding:**

**Key Responsibilities:** Provides technical assistance to Federal, State, regional, and local governments in formulating and carrying out plans for conservation use treatment measures, nonstructural measures, and development. Plans may include management and structural measures, or combinations thereof.

**Point Of Contact:** Dr. Jeri Berc

339 Busch's Frontage Road Suite 301  
Annapolis, Maryland 21401-5534  
(410) 757-0861

**Problems / Solutions:**

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## U.S.D.A., Natural Resource Conservation Service (NRCS)

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**Program:** Watershed Protection

**Authorities:** Section 3, Watershed Protection and Flood Prevention Act of 1954;  
PL 83-566

**Funding:**

**Key Responsibilities:** Provides technical assistance to state and local governments in planning and carrying out works of improvement to protect, develop, and utilize the land and water resources in small watersheds under 250,000 acres in size. Conservation land treatment and structural and nonstructural measures are used to address problems related to watershed protection, flood prevention, and agricultural and nonagricultural water management. Nonstructural measures are preferred.

**Point Of Contact:** Dr. Jeri Berc

339 Busch's Frontage Road Suite 301  
Annapolis, Maryland 21401-5534  
(410) 757-0861

**Problems / Solutions:**

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**U.S.D.A., Natural Resource Conservation Service (NRCS)/ Farm Services  
Agency (FSA)**

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**Program:** Swampbuster Provision

**Authorities:** Federal Agriculture Improvement and Reform Act of 1996

**Funding:**

**Key Responsibilities:** Allows farmers more flexibility in complying with wetland conservation requirements while protecting natural resources.

**Point Of Contact:** Mr. James Voss  
State Executive Director  
Farm Services Agency  
8335 East Guilford Road  
Columbia, Maryland 21042  
(410) 381-4550/4551

-or-

Dr. Jeri Berc  
State Conservationist  
USDA, NRCS  
339 Busch's Frontage Road  
Annapolis, Maryland 21401-5534  
(410) 757-0861 Ext, 315

**Problems / Solutions:**

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**U.S.D.A., Natural Resource Conservation Service (NRCS)/ Farm Services  
Agency (FSA)**

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**Program:** Wetlands Reserve Program

**Authorities:** Federal Agriculture Improvement and Reform Act of 1996

**Funding:**

**Key Responsibilities:** Provides financial incentives for restoration and protection of wetlands to landowners. Requires that, beginning October 1, 1996, one-third of total program acres be enrolled in permanent easements, one-third in 30-year easements, and one-third in restoration only cost-share agreements. Individuals may choose the category for their eligible land. Provides landowners with 75 percent to 100 percent cost-sharing for permanent easements, 50 percent to 75 percent for 30-year easements, and 50 percent to 75 percent for restoration cost-share agreements. Cost-sharing will help pay for restoration.

**Point Of Contact:** Dr. Jeri Berc  
USDA, NRCS  
339 Busch's Frontage Road  
Annapolis, Maryland 21401-5534  
(410) 757-0861 Ext.315

**Problems / Solutions:**

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**U.S.D.A., Natural Resource Conservation Service (NRCS)/ Farm Services  
Agency (FSA)**

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**Program:** Environmental Quality Incentives Program (EQIP)

**Authorities:** Federal Agriculture Improvement and Reform Act of 1996

**Funding:** Nation-wide \$200 million- Limits total cost-share and incentive payments to any person to \$10,000.00 annually, and to \$50,000.00 for the life of the contract.

**Key Responsibilities:** EQIP is funded at \$130 million in fiscal year 1996 and \$200 million annually thereafter. Livestock-related conservation practices will receive 50 percent of program funding. Establishes conservation priority areas where significant water, soil, and related natural resource problems exist, in cooperation with state and federal agencies and with the state technical committees. Establishes 5-to 10-year contracts to provide technical assistance and pay up to 75 percent of the costs of conservation practices such as manure management systems, pest management, and erosion control.

**Point Of Contact:** Mr. James Voss

State Executive Director  
Farm Services Agency  
8335 East Guilford Road  
Columbia, Maryland 21042  
(410) 381-4550/4551

-or-

Dr. Jeri Berc  
State Conservationist  
USDA, NRCS  
339 Busch's Frontage Road  
Annapolis, Maryland 21401-5534  
(410) 757-0861 Ext, 315

**Problems / Solutions:**



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## **U.S.D.A., Rural Business/Cooperative Service(RBS)**

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**Program:** Cooperative Service

**Authorities:**

**Funding:**

**Key Responsibilities:** Works to improve the effectiveness and performance of the nation's cooperative, and promote the understanding and use of the cooperative form of business as a viable option for agricultural producers and other rural residents. This is accomplished by: (1) providing information, educational materials and services relating to cooperatives; (2) conducting research on financial, structural, managerial, policy, member, legal, social and economic activities pertaining to cooperatives; (3) responding to requests for technical assistance from farmers of other rural residents or groups who want to organize a cooperative, or from farmer-elected directors of a federation of cooperatives seeking to improve operations, and; (4) collecting and disseminating statistics that identify and support research and technical assistance.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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**U.S.D.A., Rural Business/Cooperative Service (RBS)**

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**Program:** Intermediary Relending Program Loans

**Authorities:**

**Funding:**

**Key Responsibilities:** Finance business facilities and community development projects outside cities with populations over 25,000. Funds loaned by RBS to intermediaries are provided to the ultimate recipient for businesses and community development projects in rural areas.

**Point Of Contact:** Roger Persons

Community & Business Program Specialist

USDA Rural Development

101 Chesapeake Blvd.

Elkton, MD 21921

(410) 620-0307

**Problems / Solutions:**

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## U.S.D.A., Rural Business/Cooperative Service (RBS)

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**Program:** Rural Economic Development Loans and Grants

**Authorities:**

**Funding:**

**Key Responsibilities:** To promote rural economic development and job creation projects, including funding for feasibility studies, start-up costs, incubator projects, and other reasonable expenses to foster rural economic development. The maximum amount of grant or loan is \$400,000. Loans have a maximum term of ten years and are repaid without interest. Loans and grants are available to existing Rural Utilities Service electric and telephone borrowers.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## U.S.D.A., Rural Business/Cooperative Service (RBS)

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**Program:** Rural Business Enterprise Grant (RBEG)

**Authorities:**

**Funding:**

**Key Responsibilities:** Made to finance and facilitate development of small and emerging private business enterprises in rural areas of cities up to 50,000 population with priority to applications for projects in open country, rural communities and towns of 25,000 and smaller, and economically distressed communities. RBEG includes grants made to third party lenders to establish revolving loan programs.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## **U.S.D.A., Rural Business/Cooperative Service (RBS)**

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**Program:** Business and Industrial Guaranteed Loans

**Authorities:**

**Funding:**

**Key Responsibilities:** Help finance development or improvements to business and industry to enhance employment opportunities and improve the economic and environmental climate in rural communities, including pollution abatement and control. This assistance is available to businesses located in areas outside the boundary of cities and other urban areas with populations over 50,000. Funds are also available to guarantee loans made by private lenders to cover costs arising from the consequences of disasters declared by the President.

**Point Of Contact:** James Waters  
5201 South Dupont Highway  
P.O. Box 400  
Camden, Delaware 19934  
(302) 697-4324  
-or-  
Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## **U.S.D.A., Rural Business/Cooperative Service (RBS)**

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**Program:** Rural Technology and Cooperative Development Grants

**Authorities:**

**Funding:**

**Key Responsibilities:** Finance the establishment and operation of centers for rural technology and/or cooperative development. The grants are to improve the economic conditions of rural areas by promoting the development and commercialization of new services, products, processes, and enterprises in rural areas.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## U.S.D.A., Rural Housing Service (RHS)

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**Program:** Rural Rental Housing Loans

**Authorities:**

**Funding:**

**Key Responsibilities:** Provides apartment living as an alternative for people who cannot afford the purchase price and maintenance costs of their own individual house. Rural rental housing loans are made to finance building construction and site development of multi-family living quarters for people with very low, low and moderate incomes. Some units are reserved for people age 62 and over, and people with disabilities age 18 and over. Loans can be made in this program to construct housing that will be operated as a cooperative, but loan funds may not be used to finance individual units within the project.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## U.S.D.A., Rural Housing Service (RHS)

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**Program:** Special Housing Initiative

**Authorities:**

**Funding:**

**Key Responsibilities:** Joint agreement with the 1890 Land-Grant Institutions and Native American tribes to develop data resources and outreach services intended to transform pockets of persistent poverty into sustainable communities.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**



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## U.S.D.A., Rural Housing Service (RHS)

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**Program:** Housing Preservation Grants

**Authorities:**

**Funding:**

**Key Responsibilities:** Provided to non-profit groups and public bodies to help very low- and low-income homeowners repair and rehabilitate their homes. Rental property owners can use them to repair and rehabilitate their units if they agree to make such units available to low- and very low-income families.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## U.S.D.A., Rural Housing Service (RHS)

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**Program:** Home Improvement and Repair Loans and Grants

**Authorities:**

**Funding:**

**Key Responsibilities:** Enable very low-income rural homeowners to remove health and safety hazards from their homes and to make homes accessible for people with disabilities. Loans have a maximum interest rate of one percent. Grants are available for people 62 years old and older who cannot afford to repay a loan.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## U.S.D.A., Rural Housing Service (RHS)

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**Program:** Farm Labor Housing Loans and Grants

**Authorities:**

**Funding:**

**Key Responsibilities:** Enables farmer, public or private nonprofit organizations, and units of State and local governments to build, buy, or repair farm labor housing in either dormitory or multi-family apartment style.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## U.S.D.A., Rural Housing Service (RHS)

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**Program:** Community Facility Loans

**Authorities:** Rural Development Act 1990

**Funding:** \$1 million

**Key Responsibilities:** The programs assist rural communities with a population of 20,000 or less in financing construction, enlargement or improvement of fire stations, libraries, hospitals and clinics, industrial parks, and other essential community facilities.

**Point Of Contact:** Peter Wesp  
92 Thomas Johnson Drive, Suite 220  
Fredrick, Maryland 21793  
(301) 694-7522  
-or-  
Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:** Low funding amounts. High priority projects will usually get national reserve or national pooled funds

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## U.S.D.A., Rural Housing Service (RHS)

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**Program:** Self-Help Housing Loans

**Authorities:**

**Funding:**

**Key Responsibilities:** Assists groups of generally four to ten low-income families build their own homes by providing materials and the skilled labor they cannot furnish themselves. The families must agree to work together until all homes are finished.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## U.S.D.A., Rural Housing Service (RHS)

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**Program:** Section 502 Housing

**Authorities:**

**Funding:** Section 502 -\$50,000,000.00

**Key Responsibilities:** RHS Programs help finance new and improved housing for moderate, low, or very low income families.

**Point Of Contact:** Peter Wesp

92 Thomas Johnson Drive, Suite 220

Fredrick, Maryland 21793

(301) 694-7522

-or-

Roger Persons

Community & Business Program Specialist

USDA Rural Development

101 Chesapeake Blvd.

Elkton, MD 21921

(410) 620-0307

**Problems / Solutions:**

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## U.S.D.A., Rural Housing Service (RHS)

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**Program:** Home Ownership Loans

**Authorities:**

**Funding:**

**Key Responsibilities:** To provide financing with no downpayment and at favorable rates and terms either through a direct loan with RHS or with a loan from a private financial institution which is gurantee by RHS. These loans are for the purchase, constructions, rehabilitation, or relocation of a dwelling and related facilities for very low-, low- or moderate-income rural persons.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## U.S.D.A., Rural Housing Service (RHS)

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**Program:** Rural Housing Site Loans

**Authorities:**

**Funding:**

**Key Responsibilities:** Buy adequate building sites for development of a desirable community by private or public nonprofit organization.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**



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## U.S.D.A., Rural Utilities Service (RUS)

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**Program:** Technical Assistance and Training Grants

**Authorities:**

**Funding:**

**Key Responsibilities:** Make grants to nonprofit organizations to provide technical assistance and/or training to associations located in rural areas and to cities and towns with a population of 10,000 or less. Assistance may be provided to identify and evaluate solutions to water and waste disposal problems, to improve the operation and maintenance of existing water and waste disposal facilities, and to assist associations in preparing applications for water and waste disposal facilities.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## U.S.D.A., Rural Utilities Service (RUS)

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**Program:** Solid Waste Management Grants

**Authorities:**

**Funding:**

**Key Responsibilities:** Make grants to public and private nonprofit organizations to provide technical assistance and/or training to associations located in rural areas and to cities and towns with a population of 10,000 or less to reduce or eliminate pollution of water resources, and improve planning and management of solid waste facilities. Assistance may be provided to enhance operator skills in operations and maintenance, identify threats to water resources, and reduce the solid water stream.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## U.S.D.A., Rural Utilities Service (RUS)

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**Program:** Rural Water Circuit Rider Technical Assistance

**Authorities:**

**Funding:**

**Key Responsibilities:** Provide on-site technical assistance to help assure cost-effective operation of rural water systems. RUS has assisted rural water system, via contracting, with day-to-day operational, financial and management problems. The assistance is provided at no charge and may be requested by officials of rural water systems or by Rural Development personnel. It complements supervisory assistance provided by Rural Development personnel.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## U.S.D.A., Rural Utilities Service (RUS)

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**Program:** Rural Telecommunications Loans and Loan Gurantees

**Authorities:**

**Funding:**

**Key Responsibilities:** Build modern rural communications systems, the rural "on ramps" to the information superhighway by making financing available for telecommunications facilities, and by supporting the Rural Telephone Bank program. Loans are made to rural telephone cooperatives and companies which bring reliable and affordable program supports the Administration's National Information Infrastructure initiative and provides a vital telecommunications policy function in preparing rural America for the 21st century.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## U.S.D.A., Rural Utilities Service (RUS)

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**Program:** Rural Electric Loans and Loan Guarantees

**Authorities:**

**Funding:**

**Key Responsibilities:** Provide reliable, safe and affordable electric energy to rural America, by making financing available for power distribution, generation and transmission system. Loans are made to nonprofit and cooperative associations, public bodies, and other utilities, who serve over 25 million rural Americans. Like the Federal Highway system, the rural electric system once built must be maintained.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## U.S.D.A., Rural Utilities Service (RUS)

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**Program:** Distance Learning and Telemedicine Loans and Grants

**Authorities:**

**Funding:**

**Key Responsibilities:** Bring distance learning and telemedicine to rural America. Education and adequate medical care are crucial to the survival of rural communities, but are becoming increasingly hard to provide in rural America. This program employs innovative ways to use existing telecommunications infrastructure to extend the reach of educational and medical expertise into communities without that expertise. Grants are made to rural schools, clinics, and hospitals. This program brings sophisticated health care to rural areas and provides school children with education opportunities they would otherwise be without.

**Point Of Contact:** Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## U.S.D.A., Rural Utilities Services (RUS)

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**Program:** Water and Waste Disposal Loans and Grants

**Authorities:** Housing and Community Act of 1974

**Funding:** Federal funds available as determined by USDA

**Key Responsibilities:** Develop water and waste disposal systems (including solid waste disposal and storm drainage) in rural areas and towns with populations up to 10,000. This program provides safe, clean drinking water and sanitary, environmentally sound wastewater facilities in rural America. Funds are available to public entities such as municipalities, counties, special-purpose districts, Indian tribes, and corporations not operated for profit. RUS also guarantees water and waste disposal loans made by banks and other eligible lenders. The same types of applicants are eligible for both grants and loans.

**Point Of Contact:** James Waters  
5201 South Dupont Highway  
P.O. Box 400  
Camden, Delaware 19934  
(302) 697-4324

-or-

Roger Persons  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307

**Problems / Solutions:**

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## U.S. Department of Commerce, Economic Development Administration

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**Program:** EDA Flood Relief Program

**Authorities:**

**Funding:**

**Key Responsibilities:**

**Point O' Contact:** (202) 482-3901

**Problems / Solutions:**

Point O' Contact: Roger Person  
3201 Riverfront Drive  
P.O. Box 408  
Camden, Delaware 19924  
(202) 482-4234  
(202) 482-4234

Problems / Solutions:  
Roger Person  
Community & Business Program Specialist  
USDA Rural Development  
101 Chesapeake Blvd.  
Elkton, MD 21921  
(410) 620-0307



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## U.S. Department of Housing and Urban Development (USDHUD)

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**Program:** Community Development Block Grant

**Authorities:** Housing and Community Act of 1974

**Funding:** Federal funds available as determined by FEMA. \$988,638.00 special supplemental grant currently available. CDBG funds of approximately \$400,000.00 are available for use at discretion of the Secretary, DHCD (Special Project Category).

**Key Responsibilities:** Grantees may reprogram previously awarded grants to redirect their focus to disaster recovery activities. HUD may expedite grant awards for grantees with program year start dates coming up in the near future; permit grantees with program year start dates later in the year to change to an earlier date; waive regulatory and statutory program requirements (except for certain provisions) to increase the flexibility of the use of funds for disaster recovery.

**Point Of Contact:** Harold Young  
10 South Howard Street  
Baltimore, Maryland 21201  
(410) 962-2520

**Problems / Solutions:**

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## U.S. Department of Housing and Urban Development (USDHUD)

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**Program:** Mortgage Insurance Program

**Authorities:** National Housing Act, Section 203(h)

**Funding:**

**Key Responsibilities:** Under this program, individuals or families whose residences were destroyed or damaged to such an extent that reconstruction or repair is necessary, are eligible for 100 percent financing.

**Point Of Contact:** Harold Young  
10 South Howard Street  
Baltimore, Maryland 21201  
(410) 962-2520

**Problems /Solutions:**

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## U.S. Department of Housing and Urban Development (USDHUD)

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**Program:** Home Program

**Authorities:** Housing and Community Act of 1974, Title IV of the Robert T. Stafford Disaster Relief and Emergency Assistance Act. HOME Investment Partnership Act.

**Funding:** Variable based on region and income. Funded through HUD.

**Key Responsibilities:** Grantees may reprogram previously awarded grants to redirect their focus to disaster recovery activities. HUD may expedite grant awards for grantees with program year start dates coming up in the near future; permit grantees with program year start dates later in the year to change to an earlier date; waive regulatory and statutory program requirements (except for certain provisions) to increase the flexibility of the use of funds for disaster recovery.

**Point Of Contact:** Harold Young  
10 South Howard Street  
Baltimore, Maryland 21201  
(410) 962-2520

**Problems / Solutions:**

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## **U.S. Department of Housing and Urban Development (USDHUD)**

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**Program:** Section 108 Loan Guarantee Program

**Authorities:**

**Funding:**

**Key Responsibilities:** Under this program, entitlement communities can receive loan guarantees equal to 5 times their CDBG entitlement amount. Communities in nonentitlement areas can receive loan guarantees equal to 5 times the State's grant under the CDBG program. The maximum loan repayment period is 20 years. Grantees that have received guarantees in the past for activities that have yet not materialized may also request that HUD approve the use of those funds for other activities. The Section 108 loan guarantees can be used to finance acquisition of real property, rehabilitation of publicly owned real property, housing rehabilitation, public facilities, and economic development activities.

**Point Of Contact:** Harold Young  
10 South Howard Street  
Baltimore, Maryland 21201  
(410) 962-2520

**Problems / Solutions:**

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## U.S. Department of The Interior, Fish & Wildlife Service (USFWS)

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**Program:** Partner for Wildlife

**Authorities:**

**Funding:** Challenge Grants have a minimum 1:1 funding up to \$50,000.  
Partners: \$500 per acre maximum not to exceed \$10,000 to an individual project without Regional Office Review.

**Key Responsibilities:** The program concentrates on restoring cleared and drained or other degraded freshwater and saltwater wetlands; restoring riparian (stream side) habitats; restoring the habitats of neotropical migratory birds such as many common songbirds; restoring the habitats of endangered and threatened species; and restoring fish habitat. Currently, the majority of restoration being completed is wetland restoration.

**Point Of Contact:** Ms. Cheryl Amrani  
177 Admiral Cochman Drive  
Annapolis, Maryland 21401  
(410) 573-4559

**Problems / Solutions:**

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## U.S. Department of The Interior, Fish & Wildlife Service (USFWS)

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**Program:** North American Wetlands Conservation Fund

**Authorities:** The North American Wetlands Coinsevation Act

**Funding:** 1:1 grant match from any non-Federal source. Ten and five year agreements based on project type.

**Key Responsibilities:** Conservation projects involving acquisition, restoration, and/or enhancement, of wetland ecosystems and other habitat for migratory birds, fish and wildlife in North America.

**Point Of Contact:** Ms. Cheryl Amrani  
177 Admiral Cochman Drive  
Annapolis, Maryland 21401  
(410) 573-4559

**Problems / Solutions:**

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## U.S. Department of The Interior, Fish & Wildlife Service (USFWS)

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**Program:** Small Wetlands Acquisition Program

**Authorities:**

**Funding:**

**Key Responsibilities:**

**Point Of Contact:** Ms. Cheryl Amrani  
177 Admiral Cochman Drive  
Annapolis, Maryland 21401  
(410) 573-4559

**Problems / Solutions:**

**Point Of Contact:** Wendy O'Brien  
National Center for Recreation & Conservation  
P.O. Box 37127  
Washington D.C. 20013  
(202) 565-1184

**Problems / Solutions:**

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**U.S. Department of The Interior, Fish & Wildlife Service (USFWS)**

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**Program:** Challenge Grant Program

**Authorities:**

**Funding:**

**Key Responsibilities:**

**Point Of Contact:** Ms. Cheryl Amrani  
177 Admiral Cochman Drive  
Annapolis, Maryland 21401  
(410) 573-4559

**Problems / Solutions:**



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## U.S. Department of The Interior, National Park Service (NPS)

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**Program:** Federal Land Transfer, Federal Land-to-Parks Program

**Authorities:**

**Funding:** \$85,000

**Key Responsibilities:** To identify, assess, and transfer available surplus Federal real property to state and local parks, and to advise disposing agencies of local resource conservation interests. Maintain oversight on transferred land to ensure continued public access and use for parks and recreation. Applicants must be state or local governments, and properties must be made available by the General Services Administration (GSA). Application must be received within 20 days from date of surplus property notice from GSA. Information on property available may be obtained from GSA, Region I office, Boston, MA. (617) 835-5700.

**Point Of Contact:** Wendy Ormont  
National Center for Recreation & Conservation  
P.O. Box 37127  
Washington D.C. 20013  
(202) 565-1184

**Problems / Solutions:**

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## **U.S. Department of The Interior, National Park Service (NPS)**

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**Program:** Rivers and Trails Conservation Program

**Authorities:** National Wild & Scenic Rivers Act, National Trails Act, National Outdoor Recreation Act

**Funding:** \$7 million (in technical assistance)

**Key Responsibilities:** Provides National Park Service staff assistance to communities for multi-objective river corridor planning, trail and greenway development, and open space conservation efforts. Program staff work in partnership with local communities. Products and services are tailored to the needs of the community including: visioning, strategic planning, organization development, facilitation, multi-objective river corridor plans, trail and open space plans. Program staff have worked with interested communities in identifying non-structural options to flood hazard mitigation, and assisted communities in making informed decisions about future growth and development in an effort to minimize future flood losses. Projects are based on requests from community organizations, local and/or state governments.

**Point Of Contact:** Ursula Lemanski & Don Briggs  
Potomac Valley Field Office  
Rivers, Trails, and Conservation Assistance Program  
c/o C&O Canal National Historical Park  
P.O. Box 4  
Sharpsburg, Maryland 21782  
(301) 984-1908 (x119 & x111)

**Problems / Solutions:**

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## U.S. Department of the Interior, Office of Surface Mining (OSM)

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**Program:** Appalachian Clean Streams Initiative

**Authorities:**

**Funding:** Up to 100 percent financing

**Key Responsibilities:** OSM has proposed the Appalachian Clean Streams Initiative. The initiative is a non-regulatory effort aimed at remediation of existing sources of acid mine drainage (AMD) often found at abandoned and bond-forfeited sites. The major goal of the cleanup is to increase information exchange and to eliminate duplicate efforts among state, local and Federal government agencies that are working in this arena.

**Point Of Contact:** Robert Uram  
1951 Constitution Avenue, NW  
MS 233 SIB  
Washington, DC 20240  
(202) 208-4006

**Problems / Solutions:**

**Point Of Contact:** Clean Water State Revolving Fund Branch, U.S. Environmental Protection Agency  
401 M Street, SW (Mailcode 4204)  
Washington, D.C. 20460  
(202) 260-7159  
Elisabeth Fisher (202) 260-3973 - EPA POC  
Kathleen Murphy (410) 631-3117 - Maryland State POC

**Problems / Solutions:**

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## U.S. Department of the Interior, Office of Surface Mining (OSM)

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**Program:** Abandoned Mine Land (AML) program

**Authorities:** Title IV of the Surface Mining Control and Reclamation Act of 1977 (SMCRA)

**Funding:** FY1994 grants distributed to States and Indian tribes totaled \$2 billion

**Key Responsibilities:** The program provides for the restoration of eligible lands and waters mined and abandoned or left inadequately restored. A primary objective of SMCRA is for the States/Indian tribes to implement the program. Congress provided that individual States may establish their own programs for regulating surface and underground coal mining and reclamation on private land. SMCRA provides authority to use money from the fund to reclaim and restore land and water resources adversely affected by past mining.

**Point Of Contact:** Dave Hamilton  
(717) 782-4036

**Problems / Solutions:**

Point Of Contact: Ursula L. Ammerla & Doug Briggs  
Potomac Valley Field Office  
Rivers, Trails, and Conservation Assistance Program  
c/o C&O Canal National Historical Park  
P.O. Box 4  
Sharpsburg, Maryland 21762  
(301) 944-1908 (x110 & x111)

Problems / Solutions:

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## U.S. Environmental Protection Agency (USEPA)

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**Program:** The Clean Water State Revolving Fund Program

**Authorities:** The Clean Water Act

**Funding:** Currently, the program has over \$20 billion in assets

**Key Responsibilities:** The State Revolving Fund program is a partnership between EPA and the states. It allows states the flexibility to provide funding for projects that will address their highest-priority water quality needs. Under the program, EPA provides grants or "seed money" to all 50 states plus Puerto Rico to capitalize state loan funds. The states, in turn, make loans to communities, individuals, and others for high priority water-quality activities. As money is paid back into the revolving fund, new loans are made to other recipients that need help in maintaining the quality of their water. While traditionally used to build or improve wastewater treatment plants, loans are also used increasingly for: agricultural, rural, and urban runoff control; estuary improvement projects; wet weather flow control, including stormwater and sewer overflows; and alternative treatment technologies.

**Point Of Contact:** Clean Water State Revolving Fund Branch, U.S. EPA  
401 M Street, SW (Mailcode 4204)  
Washington, D.C. 20460  
(202) 260-7359  
Kit Farber (202) 260-3973 --EPA POC  
Kenneth McElroy (410) 631-3117 --Maryland State POC

**Problems / Solutions:**

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## U.S. Environmental Protection Agency (USEPA)

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**Program:** Regulatory Reinvention (XL) Pilot Projects: XL Community Pilot Program

**Authorities:**

**Funding:**

**Key Responsibilities:** EPA will respond to requests for regulatory flexibility to support local communities' efforts to create innovative alternative environmental management strategies that are supportive of community economic goals. EPA invites proposals from local entities capable of demonstrating alternative approaches to environmental protection. XL community pilot projects should be consistent with and should help to establish long-range community environmental goals and bring together groups, facilities, community organizations, and governments at all levels to achieve the goals of greater environmental quality consistent with economic development.

**Point Of Contact:** XL Community Pilot Program  
(703) 934-3241

**Problems / Solutions:**

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## U.S. Environmental Protection Agency (USEPA)

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**Program:** Performance Partnership Grants (PPGs)

**Authorities:** 1996 Omnibus Consolidated Rescissions and Appropriations Act (PL 104-134)

**Funding:**

**Key Responsibilities:** PPGs is a multi program grant provided to States and Tribes with the option to combine funds from two or more categorical grants into one or more PPGs. States and Tribes will have the flexibility to address their highest environmental priorities across all media and established resource allocations based on those priorities, while continuing to address core program commitments. Funds are allocated from categorical grant programs. All States and federally recognized Indian Tribes (including environmental, health, agriculture, and other State/Tribal agencies) eligible to receive more than one categorical grant in Fiscal Year (FY) 1997 are eligible to receive PPGs.

**Point Of Contact:** Barbara d'Angelo

U.S. EPA

Region 3, National Environmental Partnership System  
(215) 566-2730

**Problems / Solutions:**

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## **U.S. Environmental Protection Agency (USEPA)**

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**Program:** The National Nonpoint Source Management Program

**Authorities:** Section 319, Clean Water Act

**Funding:** The total EPA grant must be matched by 40% from the state.

**Key Responsibilities:** Under Section 319, states address nonpoint pollution by identifying nonpoint source pollution problems and sources responsible for the water quality problems. States adopt management programs to control nonpoint source pollution and then implement those programs. Section 319(h) provides for EPA's grant awards to states to help them implement those adopted programs. The assessment report and management program must be approved by EPA for a state to be eligible for Section 319(h) funds. Types of projects that have received funding from Section 319 grants have ranged from information and educational programs to the demonstration of innovative technologies and watershed-based approaches to solving water quality problems. With the aid of Section 319 grants, states have been able to address site- and watershed-specific water quality problems as well as to initiate and maintain state wide nonpoint source programs.

**Point Of Contact:** Dov Weitman  
U.S. EPA

Assessment and Watershed Protection Division Office of Wetlands,  
Oceans, and Watersheds  
(202) 260-7088

**Problems / Solutions:**



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## U.S. Environmental Protection Agency (USEPA)

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**Program:** Sustainable Development Challenge Grant (SDCG) program

**Authorities:** National Performance Review's- Reinventing Environmental Regulation

**Funding:** Ranges for FY 1996: (1) \$50,000.00 or less, and (2) between \$50,001.00 and \$100,000.00. FY 1997 levels may be changed based on EPA's assessment of FY 1996 experience. Multi Media FY97 est. \$5 million.

**Key Responsibilities:** The Sustainable Development Challenge Grant program is a new competitive grant program developed to encourage community, business, and government to work cooperatively to develop flexible, locally-oriented approaches that link efforts to enhance environmental quality management with sustainable development and revitalization. The SDCG program is intended to challenge communities to invest in a sustainable future. EPA seeks proposals for projects that will: Catalyze community-based and regional projects to promote sustainable development; Build partnerships to increase community long-term capacity to protect the environment; Leverage public and private investments to enhance environmental quality by enabling sustainable community efforts to continue beyond EPA funding.

**Point Of Contact:** Glenn Eugster  
Sustainable Development Challenge Grant Program  
Office of Regional Operations and State/Local Relations (1503)  
U.S. Environmental Protection Agency  
401 M Street, S.W.  
Washington, D.C. 20460  
(410) 267-5722 (Region 3)

-or-

Pamela A. Hurt, U.S. EPA  
(202) 260-0422

**Problems / Solutions:**

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**U.S. Environmental Protection Agency (USEPA), Office of Prevention,  
Pesticides and Toxic Substances**

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**Program:** Pollution Prevention Grants Program

**Authorities:** Pollution Prevention Act of 1990, Section 6605

**Funding:** Grant Obligations FY 97 est \$6,486,200.00

**Key Responsibilities:** Support state and local level pollution prevention programs that address the reduction of pollutants across all environmental media: air, land, and water. The programs support the establishment and expansion of state pollution prevention programs and address various sectors of concern such as industrial toxics, agriculture, energy, and transportation.

**Point O' Contact:** Dave Sarokin  
Office of Pollution Prevention and Toxics  
U.S. EPA (7408)  
401 M Street SW  
Washington, DC 20460  
(202) 260-6907  
(202) 260-6396 (Sarokin)

**Problems /Solutions:**

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## U.S. Environmental Protection Agency (USEPA), Office of Water

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**Program:** Wetlands Protection- State and Tribal Development Grants

**Authorities:** Clean Water Act, Public Law 92-500, as amended, Section 104(b)(3),  
33 U.S.C. 1254(b)(3)

**Funding:** Grant Obligations FY 97, est. \$15 million

**Key Responsibilities:** The Project Grants (Cooperative Agreements) are intended to encourage State wetlands protection program development or to enhance/augment existing effective State programs

**Point Of Contact:** Hotline  
(800) 832-7828

**Problems / Solutions:**

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## U.S. Environmental Protection Agency (USEPA), Office of Water

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**Program:** Chesapeake Bay Program

**Authorities:** Clean Water Act, Section 117

**Funding:** Base Level I funding \$8,790,000.00 Maryland Level I 2,637,000.00  
Base Level II funding \$881,814.00 Maryland Level II 330,413.00

**Key Responsibilities:** Authorized to award grants or Cooperative Agreements to state water pollution control agencies, interstate agencies, and other public or non-profit private agencies, institutions, organizations, and individuals for research investigations, experiments, training, demonstrations, surveys, and studies related to the reduction of pollution and the improvement of living resources in the Chesapeake Bay and to states for the purpose of implementing the Chesapeake Bay interstate management program. Grants funded under the authority of Section 117(a) require a 5 percent match of total project costs, while projects funded under Section 117(b) require a 50 percent match of total project costs (dollar for dollar match).

**Point Of Contact:** Chesapeake Bay Program Office  
410 Severn Ave. Suite 109  
Annapolis, MD 21403  
(800) YOUR-BAY

**Problems / Solutions:**

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## U.S. Environmental Protection Agency (USEPA), Office of Water

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**Program:** Water Quality Management Planning

**Authorities:** Clean Water Act, Section 205(j) and 604(b) and Water Quality Act of 1987

**Funding:** Grant Obligations FY 97, est. \$0

**Key Responsibilities:** To assist States, Regional Public Comprehensive Planning Organizations, and Interstate Organizations in carrying out water quality management planning.

**Point Of Contact:** Office of Water Resource Center  
(202) 260-7786

**Problems / Solutions:**

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## U.S. Environmental Protection Agency (USEPA), Office of Water

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**Program:** Clean Lakes Program

**Authorities:** Clean Water Act, Section 314

**Funding:** Grant Obligations FY 97, est. \$90 million

**Key Responsibilities:** Provide financial assistance to States and certain Indian Tribes for assessing the water quality of publicly owned lakes; diagnosing the causes of degradation; developing lake restoration and protection plans; implementing these plans to restore and preserve the lake; and post restoration monitoring to determine effectiveness of restoration.

**Point Of Contact:** Office of Water Resource Center  
(202) 260-7786

### Problems / Solutions:

Problems / Solutions:

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## U.S. Environmental Protection Agency (USEPA), Office of Water

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**Program:** Water Pollution Control-State and Interstate Program Support

**Authorities:** Clean Water Act, Section 106

**Funding:** Grant Obligations, FY 97, est. \$80 million

**Key Responsibilities:** Assist States (including territories, the District of Columbia, and Indian Tribes qualified under Section 518(e)) and interstate agencies in establishing and maintaining adequate measures for prevention and control of surface and ground water pollution.

**Point Of Contact:** Office of Water Resource Center  
(202) 260-7786

**Problems / Solutions:**

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## U.S. Small Business Administration

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**Program:** Economic Injury Disaster Loans (EIDL)

**Authorities:** Small Business Act

**Funding:**

**Key Responsibilities:** Provide necessary working capital to small businesses and small agricultural cooperatives to assist them through the disaster recovery period. EIDL assistance is available only to applicants with no Credit Available Elsewhere - if the business and its owners cannot provide for their own recovery from non-government sources. The limit is \$1.5 million.

**Point Of Contact:** Denise Norman, Public Information Officer  
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**Problems / Solutions:**



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## U.S. Small Business Administration

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**Program:** Home Disaster Loans

**Authorities:**

**Funding:**

**Key Responsibilities:** Available to homeowners and renters to repair or replace disaster damages to real estate or personal property. Homeowners may apply for as much as \$200,000 to cover damages to real estate. Loans of up to \$40,000 are made to renters and homeowners to repair or replace personal property.

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**Problems / Solutions:**

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## U.S. Small Business Administration

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**Program:** Business Physical Disaster Loans

**Authorities:** Small Business Act

**Funding:**

**Key Responsibilities:** Made to businesses to replace or repair disaster damages to property owned by the business, including real estate, machinery and equipment, inventory and supplies. Businesses of any size are eligible. Non-profit organizations such as charities, churches, private universities, etc. are also eligible. The limit is \$1.5 million.

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**Problems Solutions:**

GOVERNOR'S FLOOD MITIGATION TASK  
FORCE FOR WESTERN MARYLAND

FINAL REPORT

ANNEX B

LISTING OF APPOINTED TASK FORCE  
MEMBERS AND ADDITIONAL PARTICIPANTS

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## U.S. Small Business Administration

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Program: Business Physical Disaster Loans

Authorities: Small Business Act

### Funding:

**Key Requirements:** Made to businesses to replace or repair disaster damages to property owned by the business, including real estate, machinery and equipment, inventory and supplies. Businesses of any size are eligible. Non-profit organizations such as charities, churches, etc. are also eligible. The limit is \$1.5 million.

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**Problem Solution:**

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**FINAL REPORT**

**ANNEX B**

**LISTING OF APPOINTED TASK FORCE  
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GOVERNOR'S FLOOD MITIGATION TASK  
FORCE FOR WESTERN MARYLAND

FINAL REPORT

ANNEX B

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